MODIFICATION HISTORY

MODEL NAME : KLV-40/46/52W300A

SERVICE MANUAL

PARTS No. : 9-834-165-03

* Blue characters are linking.

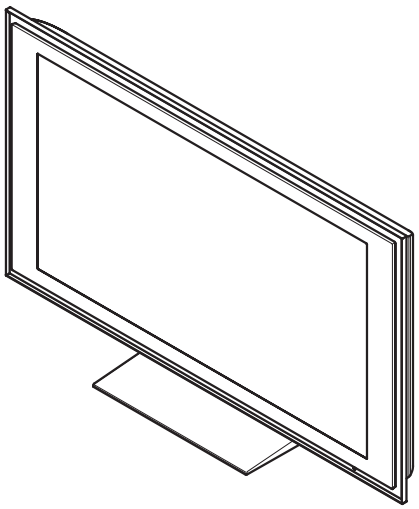
Ver.	DATA	CONTENTS
1.0	2007.08	Issued
1.1	2008.01	Correction of parts number for SEC. 5 EXPLODED VIEWS. (P. 5-10)
1.2	2008.06	Correction of parts number for SEC. 5 EXPLODED VIEWS. (P. 5-19)

Self Diagnosis
Supported model

KLV-40W300A/46W300A/52W300A

SERVICE MANUAL

China Model



FIX2 CHASSIS

LCD Colour TV

SONY®

SPECIFICATIONS

Model name		KLV-40W300A	KLV-46W300A	KLV-52W300A
System				
Panel System		LCD (Liquid Crystal Display) Panel		
TV System		D/K, B/G, I, M		
Colour System		PAL, SECAM, NTSC 3.58, NTSC 4.43 (only Video In)		
Channel Coverage		D/K: VHF : C1 to C12, R1 to R12/ UHF: C13 to C57, R21 to R60/ CATV: S01 to S03, S1 to S41, Z1 to Z39 B/G: VHF : E2 to E12/ UHF: E21 to E69/ CATV: S01 to S03, S1 to S41 I: UHF : B21 to B69/ CATV: S01 to S03, S1 to S41 M: VHF : A2 to A13/ UHF: A14 to A79/ CATV: A-8 to A-2, A to W+4, W+6 to W+84		
Sound Output		9 W + 9 W (THD; Total Harmonic Distortion: 7%)		
Input/Output jacks				
Antenna		75 ohm external terminal for VHF/UHF		
S 端子输入 (S VIDEO IN) S 1, 2		S video input (4-pin mini DIN)		
视频输入 (VIDEO IN) 1, 2, 3		Video input (phono jack)		
音频输入 (AUDIO IN) 1, 2, 3		Audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms		
HD/DVD 输入 (HD/DVD In) 1/2		Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V negative sync/PB/CB: 0.7 Vp-p, 75 ohms/ PR/CR: 0.7 Vp-p, 75 ohms		
HDMI 输入 (HDMI IN) 1, 2, 3		Video: 1080/24p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits Analogue audio input (phono jacks): 500 mVrms, Impedance: 47 kilohms (HDMI 输入 (HDMI IN) 1 only)		
视频输出 (VIDEO OUT)		Video output (phono jacks)		
音频输出 (AUDIO OUT)		Audio output (phono jacks)		
PC 输入 (PC IN) (RGB)		PC Input (D-sub 15-pin) G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms/ R: 0.7 Vp-p, 75 ohms/HD: 1-5 Vp-p/VD: 1-5 Vp-p PC audio input (minijack)		
耳机 (Headphone)		Headphones jack		
Power and others				
Power Requirements		220 V AC, 50 Hz		
Screen Size		40 inches (Approx. 101.6 cm measured diagonally)	46 inches (Approx. 116.8 cm measured diagonally)	52 inches (Approx. 132.2 cm measured diagonally)
Display Resolution		1,920 dots (horizontal) × 1,080 lines (vertical)		
Power Consumption		230 W	270 W	320 W
Standby Power Consumption*		0.5 W		
Dimensions** (w × h × d)	with stand (mm)	992 × 688 × 265	1,135 × 779 × 306	1,278 × 874 × 384
	without stand (mm)	992 × 643 × 122	1,135 × 734 × 122	1,278 × 832 × 123
Mass**	with stand (kg)	25.5	32.5	43.5
	without stand (kg)	22.0	28.5	36.0
Optional Accessories		Wall-Mount Bracket SU-WL500		
产品的使用条件				
环境温度		5˚C - 35˚C		
相对湿度		20% - 80%		
大气压力		86 kPa - 106 kPa		

* Specified standby power is reached after the TV finishes necessary internal processes.

** The values of dimensions and mass are approximate.

Model name		KLV-40W300A	KLV-46W300A	KLV-52W300A
显示规格				
亮度*		350 cd/m^2 以上**		
对比度*		150:1 以上**		
可视角(L_0/3)*		水平120° 垂直80° 以上**		
清晰度(电视线)*	RF模拟信号	水平350, 垂直400 线以上**		
	SDTV	水平450, 垂直450 线以上**		
	HDTV	水平720, 垂直720 线以上**		
色域覆盖率*		32 % 以上**		
运动图像拖尾时间*		20 ms 以下**		
声音特性*		额定输入时声压总谐波失真10% 以下**		

* 根据SJ/T11348-2006 《数字电视平板显示器测量方法》。

** 该指标为SJ/T11343-2006 《数字电视液晶显示器通用规范》之常温性能要求值。

Design and specifications are subject to change without notice.

PC Input Signal Reference Chart

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	**640**	**480**	**31.5**	**60**	**VGA**
	640	480	37.5	75	VESA
	720	400	31.5	70	VGA-T
SVGA	**800**	**600**	**37.9**	**60**	**VESA Guidelines**
	800	600	46.9	75	VESA
XGA	**1024**	**768**	**48.4**	**60**	**VESA Guidelines**
	1024	768	56.5	70	VESA
	1024	768	60.0	75	VESA
WXGA	**1280**	**768**	**47.4**	**60**	**VESA**
	1280	**768**	**47.8**	**60**	**VESA**
	1280	768	60.3	75	
	1360	**768**	**47.7**	**60**	**VESA**
SXGA	**1280**	**1024**	**64.0**	**60**	**VESA**
	1280	1024	80.0	75	VESA
HDTV	**1920**	**1080**	**67.5**	**60**	

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- For the best picture quality, it is recommended to use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency from a personal computer. In plug and play, signals with a 60 Hz vertical frequency will be selected automatically.

WARNINGS AND CAUTIONS

CAUTION

These servicing instructions are for use by qualified service personnel only.
To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis.
The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Replace all components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony.

SAFETY-RELATED COMPONENT WARNING

It is essential that all critical parts be replaced only with the part number specified in the electrical parts list to prevent electric shock, fire, or other hazard.

NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor guarantee.

USE CAUTION WHEN HANDLING THE LCD PANEL

When repairing the LCD panel, be sure you are grounded by using a wrist band.

When repairing the LCD panel on the wall, the LCD panel must be secured using the 4 mounting holes on the rear cover.

1) Do not press on the panel or frame edge to avoid the risk of electric shock.
2) Do not scratch or press on the panel with any sharp objects.
3) Do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
4) Do not expose the LCD panel to direct sunlight.
5) Avoid contact with water. It may cause a short circuit within the module.
6) Disconnect the AC power when replacing the backlight (CCFL) or inverter circuit.
   (High voltage occurs at the inverter circuit at 650Vrms.)
7) Always clean the LCD panel with a soft cloth material.
8) Use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.

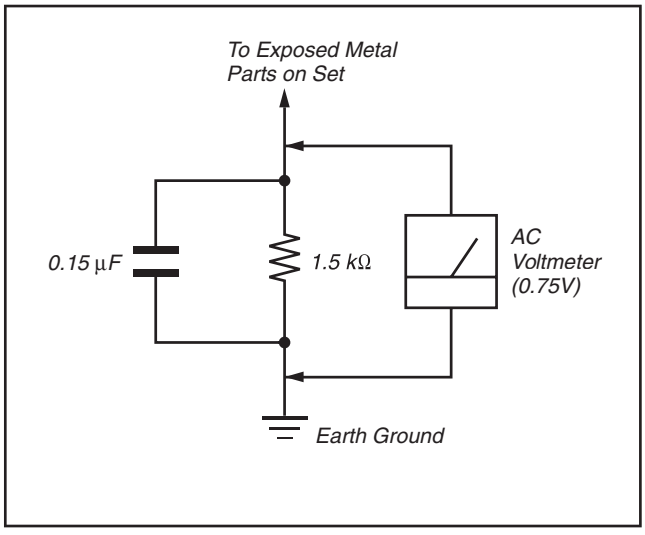
2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale.
   The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).



FigureA. Using an AC voltmeter to check AC leakage.

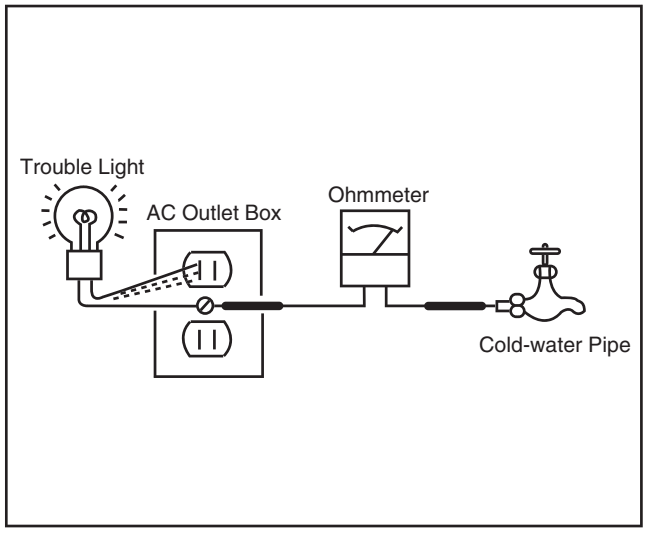


Figure B. Checking for earth ground.

SELF DIAGNOSIS FUNCTION

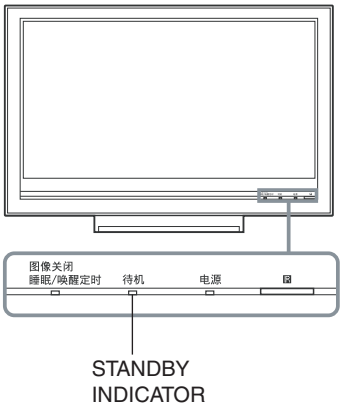
The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem.
A definition of the STANDBY LED flash indicators is listed in the instruction manual for the user's knowledge and reference.
If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

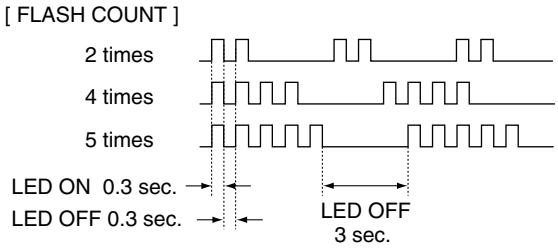
1-1. DIAGNOSTIC TEST INDICATORS

When an error occurs, the STANDBY LED will flash a set number of times to indicate the possible cause of the problem.
If there is more than one error, the LED will identify the first of the problem areas.
Result for all of the following diagnostic items are displayed on screen.
If the screen displays a "0", no error has occurred .

Number of times STANDBY LED (Red) flashes	Monitoring Items (Screen Display)	Diagnostic Item Description
2 times	POW OVP	Main Power Over Voltage Protection
3 times	POW ERR1	Power Error
5 times	T_CON	T_CON Error
6 times	BACKLITE	Back Light Error (Panel Inverter)
7 times	TEMP ERR	Temperature Abnormal Detection
8 times	AUD PROT	Audio Abnormal Detection
9 times	FAN_ERR	FAN Error (Not Detected. Display Only)
10 times	DTT ERR	DTAU Power
13 times	BALANCER	Panel Balancer Error

1-2. DISPLAY OF STANDBY LED FLASH COUNT





Note: One flash counts is not self-diagnostic.

1-3. STOPPING THE STANDBY FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY lamp from flashing.

1-4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen.

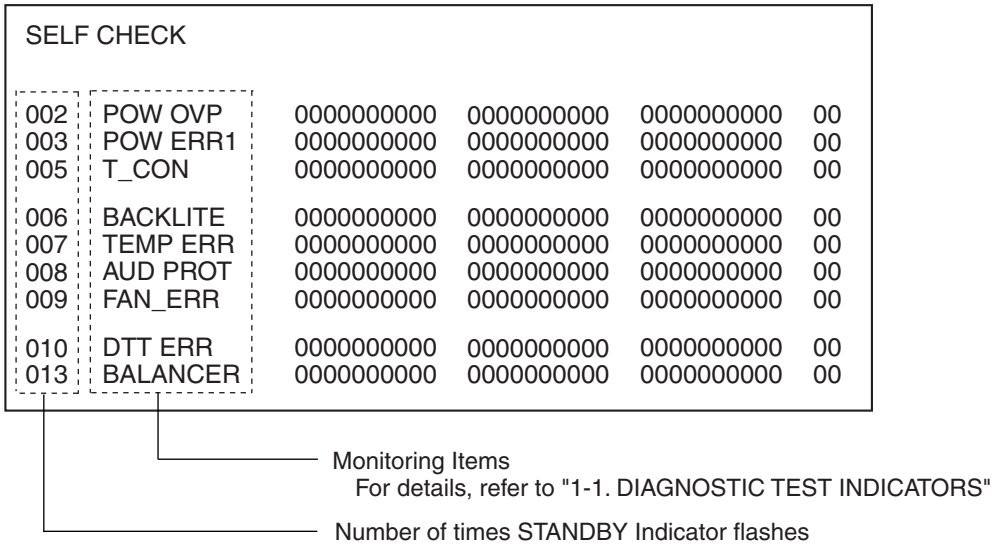
1-4-1. To Bring Up Screen Test

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

(MENU) (NUMBER BUTTON) * (VOLUME) (TV STANDBY)

* : Note that this differs from entering the service mode (volume +)

[SELF-DIAGNOSTIC SCREEN DISPLAY]



Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen After you have completed the repairs, clear the result display to “0”.

1-5. Quitting Self-diagnostic screen

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

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SECTION 1
DISASSEMBLY

1-1. KLV-40W300A

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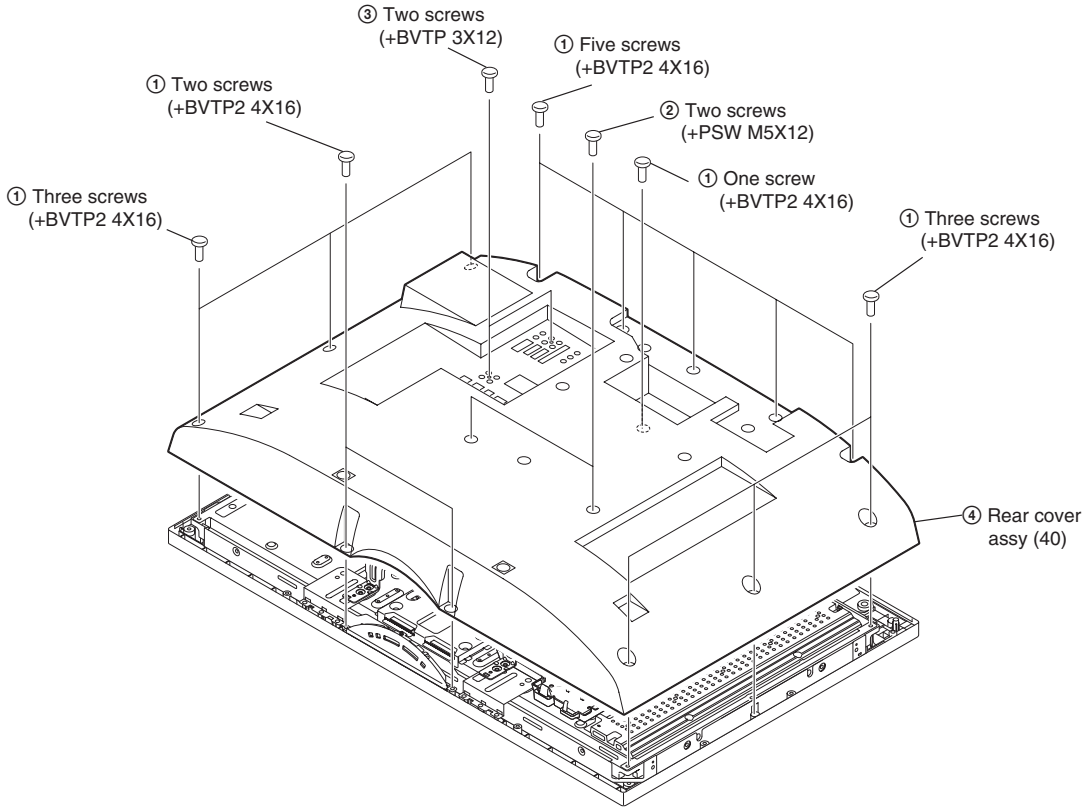
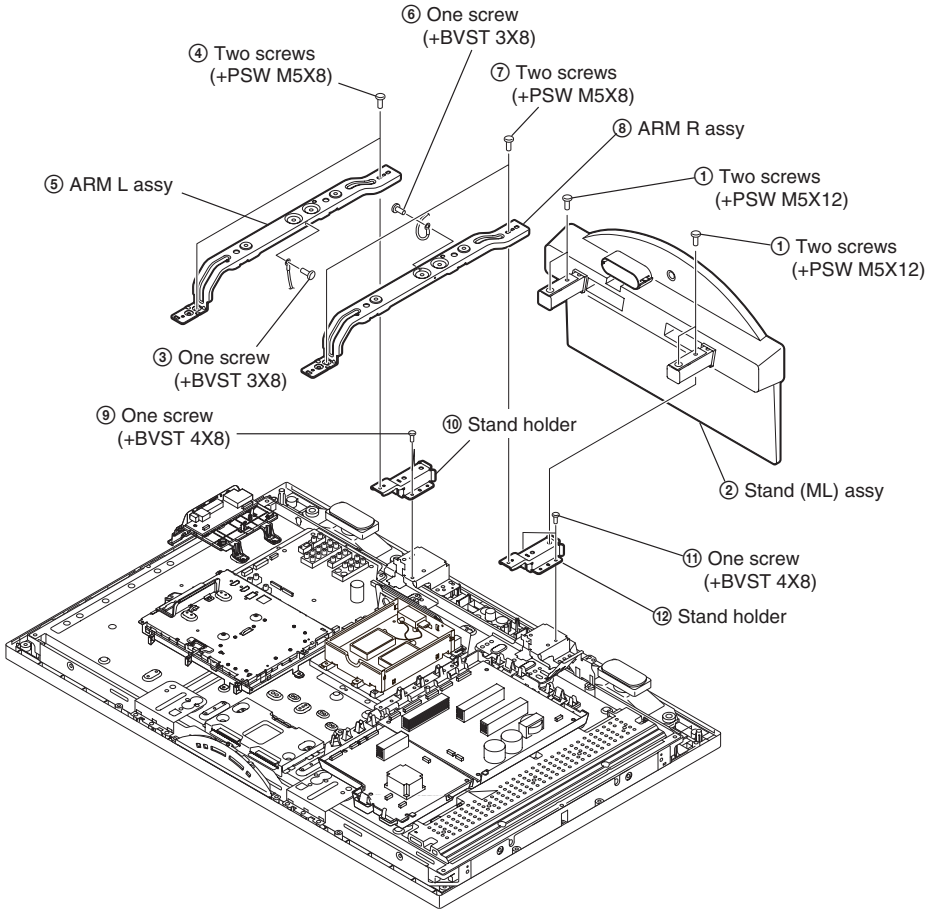
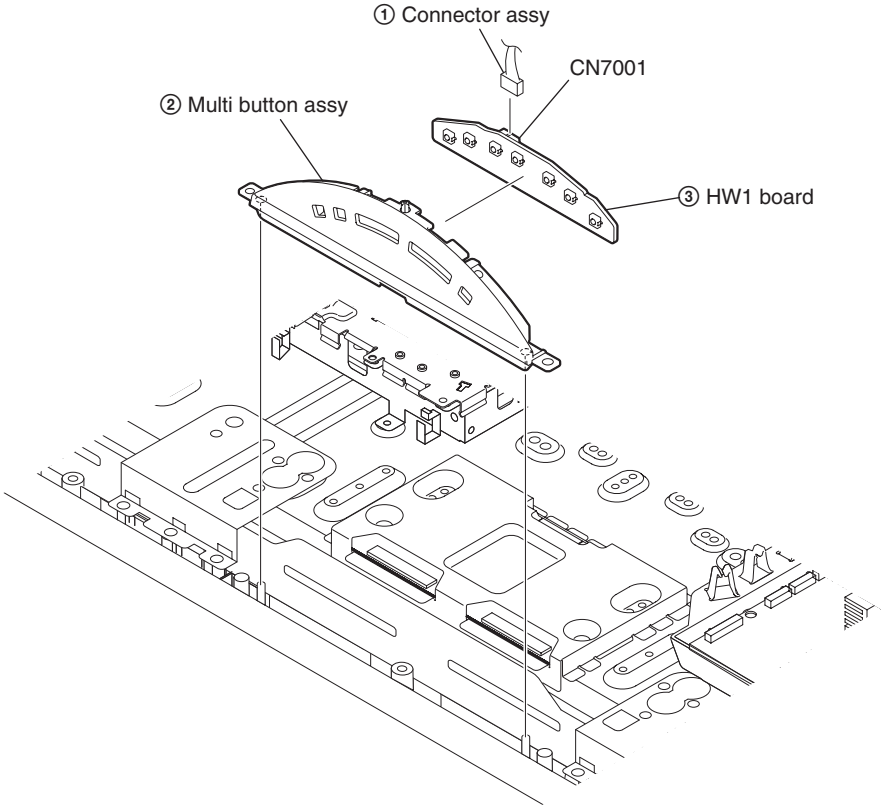


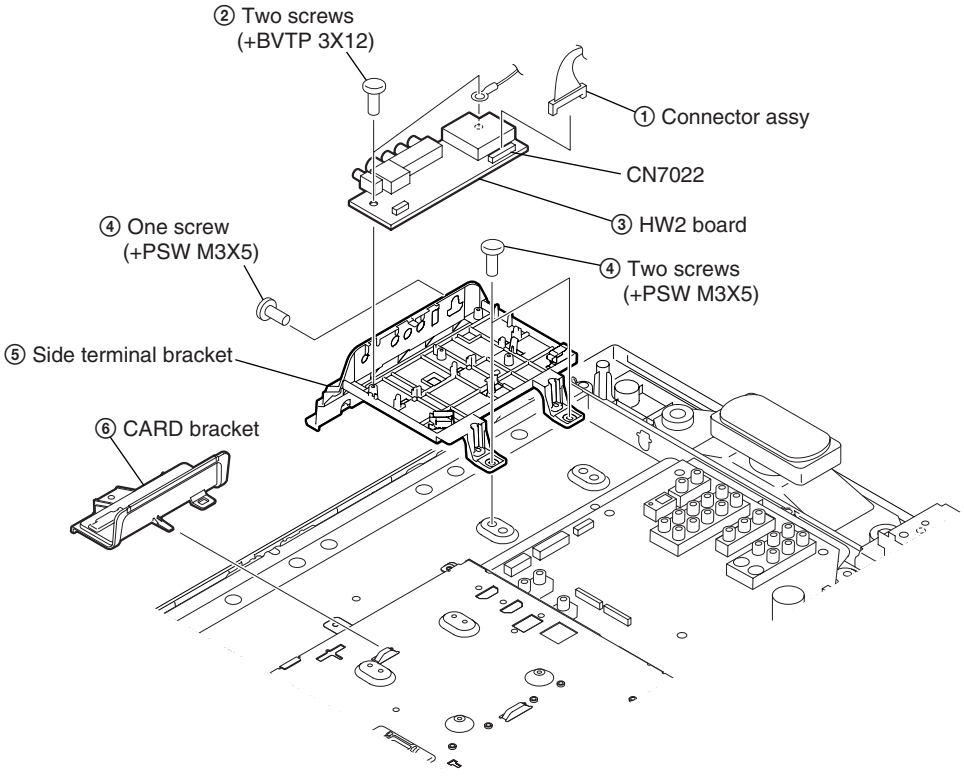
1-1-2. STAND ASSY AND ARM ASSY REMOVAL



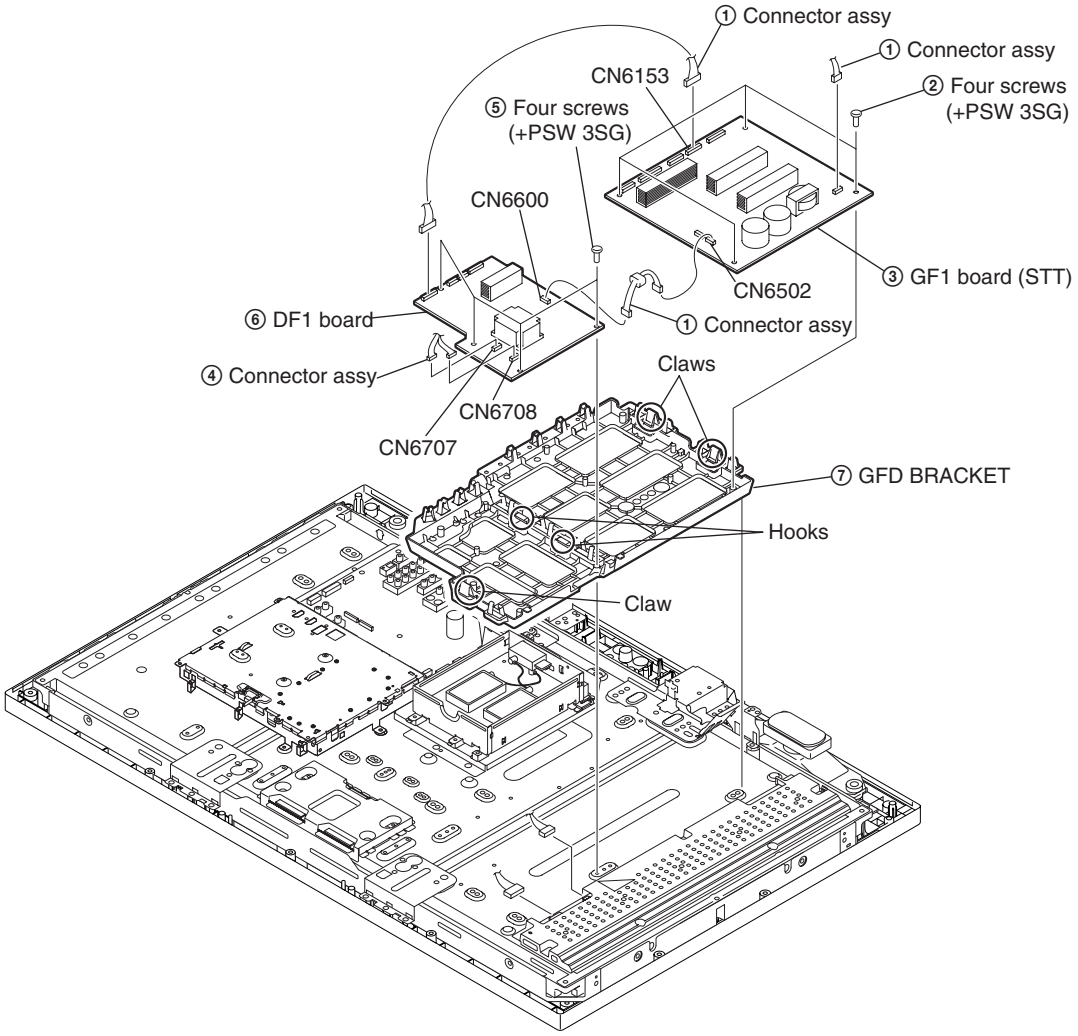
1-1-3. MULTI BUTTON ASSY AND HW1 BOARD REMOVAL



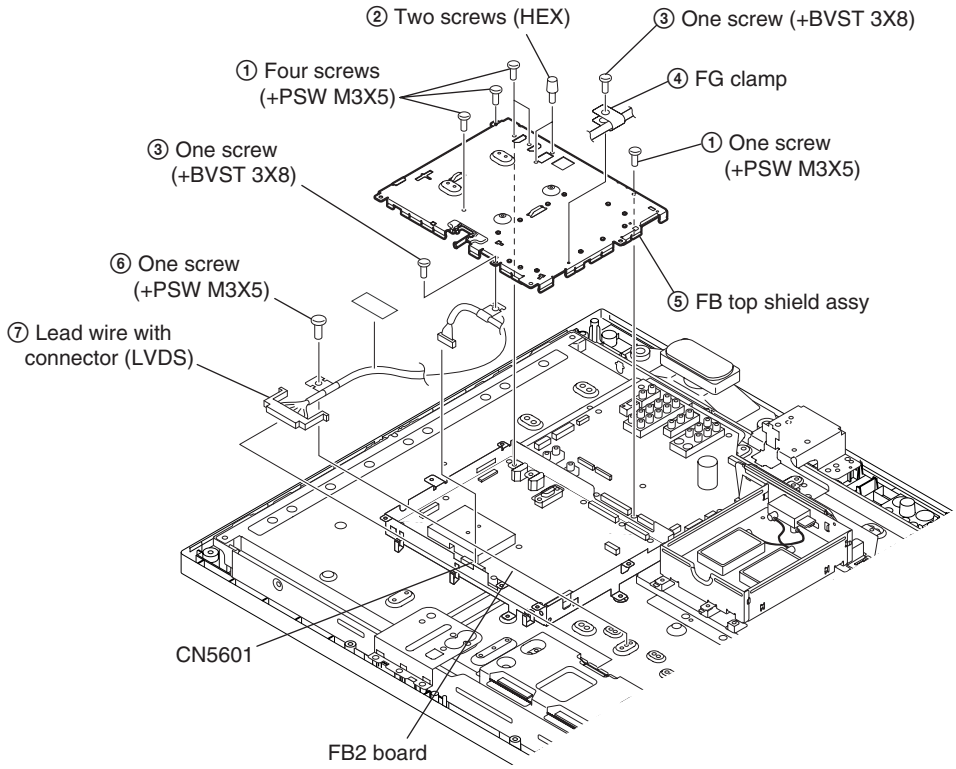
1-1-4. HW2 BOARD REMOVAL



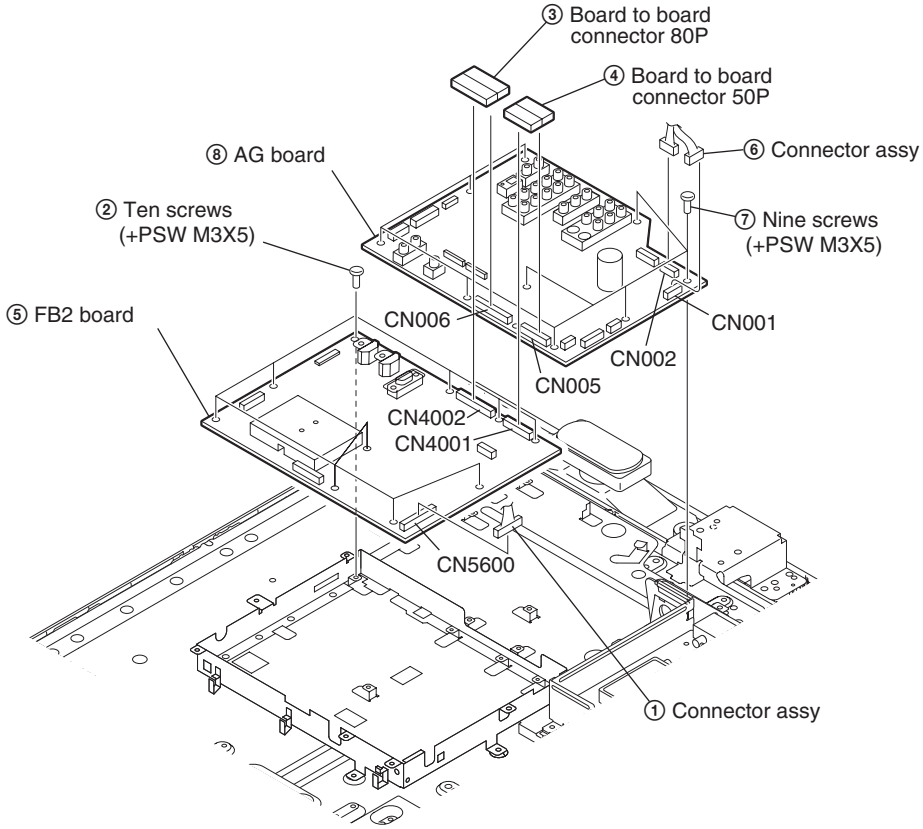
1-1-5. DF1 BOARD AND GF1 BOARD REMOVAL



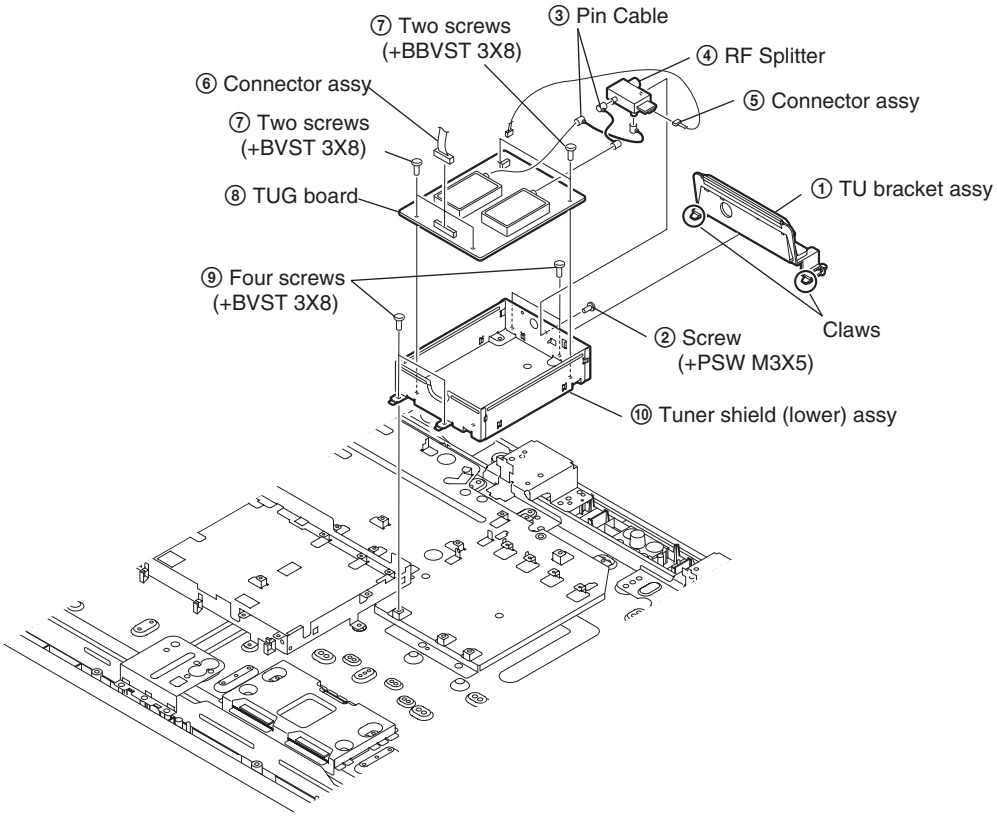
1-1-6. FB TOP SHIELD ASSY REMOVAL



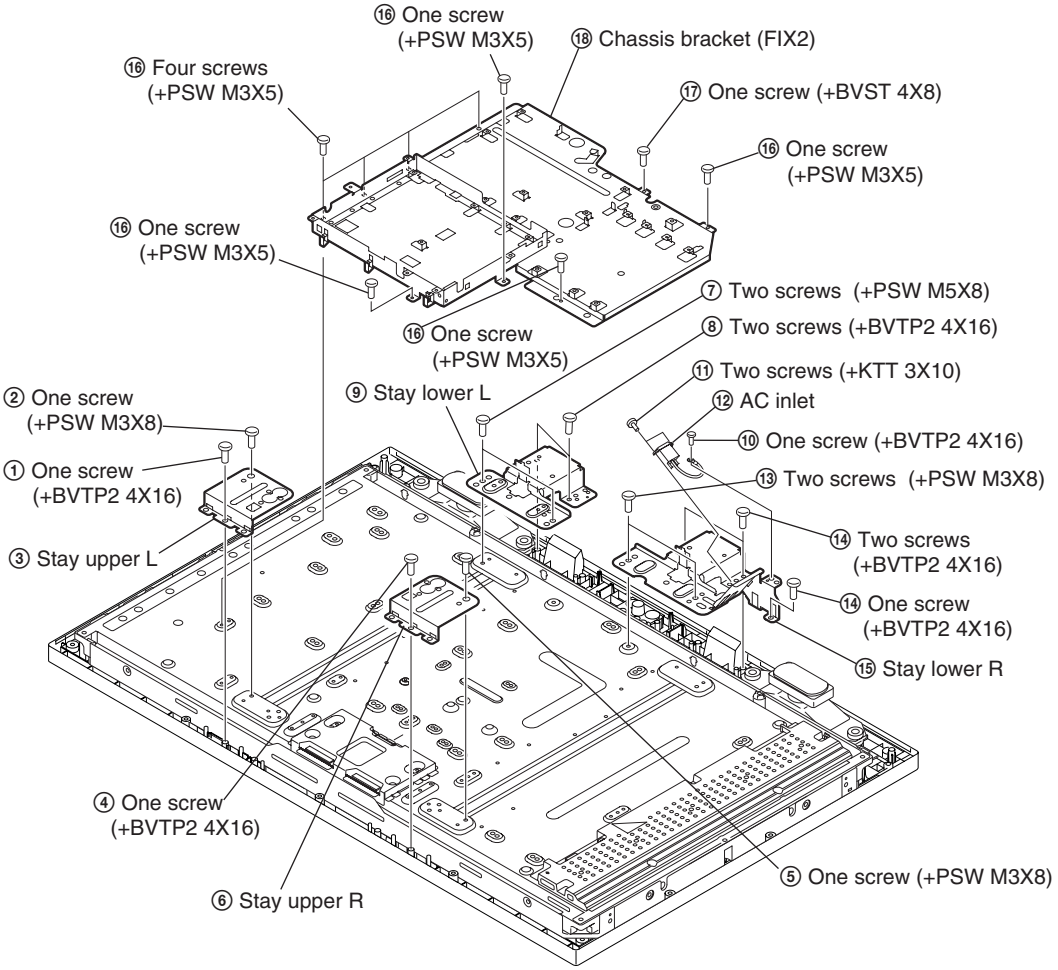
1-1-7. AG BOARD AND FB2 BOARD REMOVAL



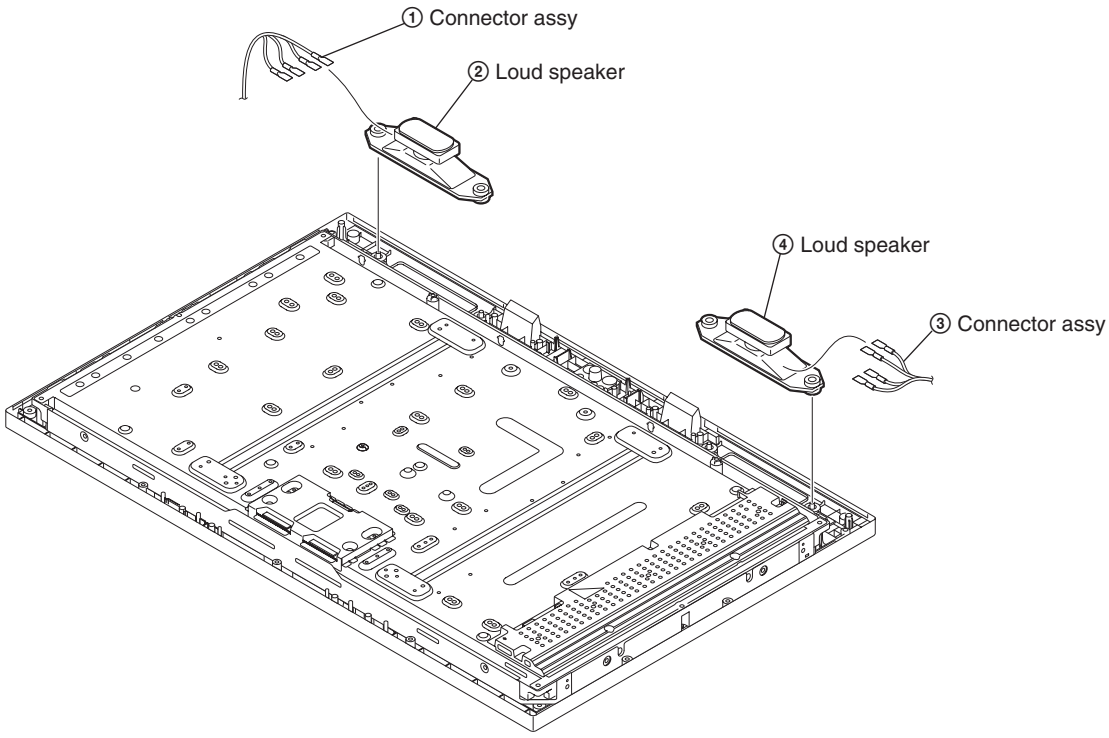
1-1-8. TUG BOARD REMOVAL



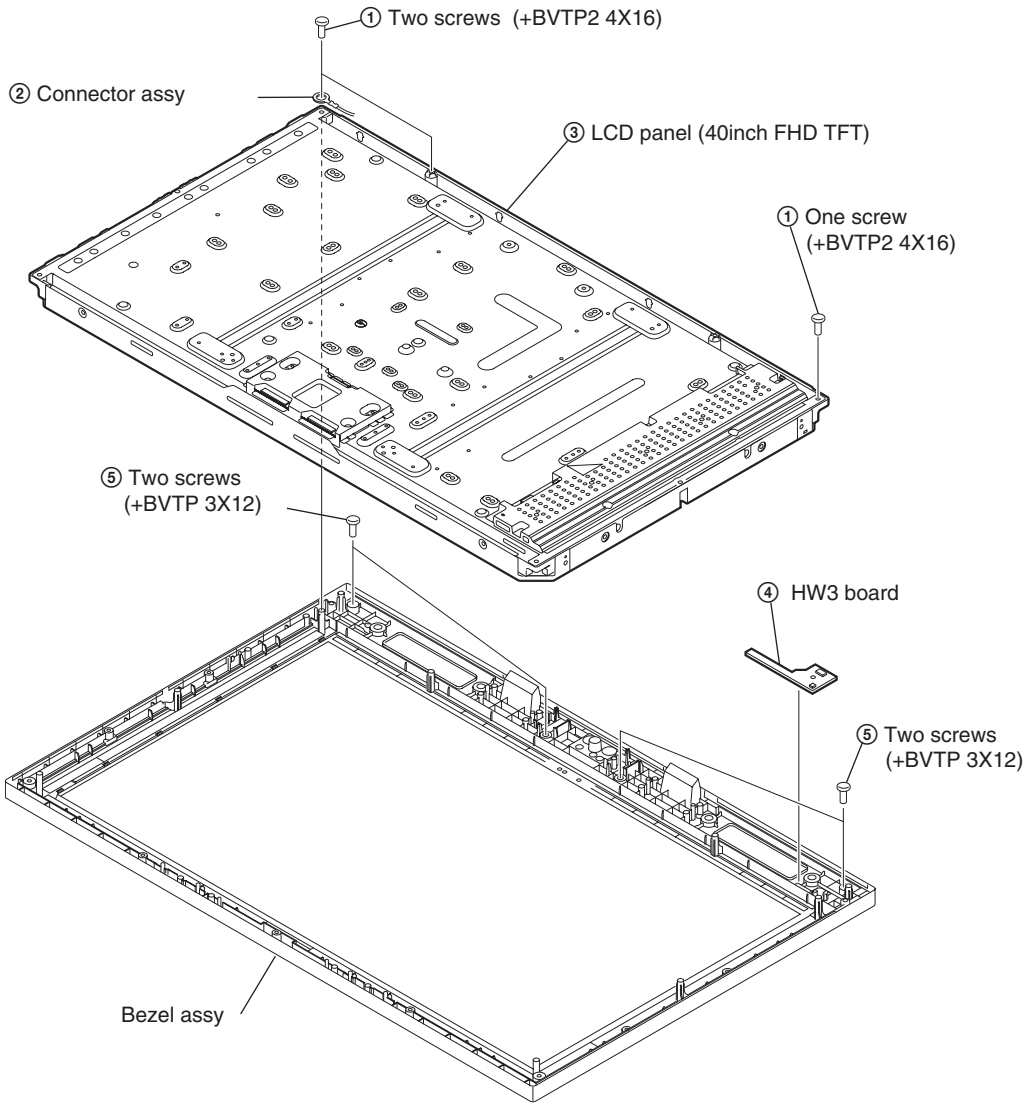
1-1-9. AC INLET, CHASSIS BRACKET AND STAY REMOVAL


⑯ One screw (+PSW M3X5)
⑱ Chassis bracket (FIX2)
⑯ Four screws (+PSW M3X5)
⑰ One screw (+BVST 4X8)
⑯ One screw (+PSW M3X5)
⑯ One screw (+PSW M3X5)
⑦ Two screws (+PSW M5X8)
⑧ Two screws (+BVTP2 4X16)
⑯ One screw (+PSW M3X5)
⑪ Two screws (+KTT 3X10)
⑫ AC inlet
⑨ Stay lower L
② One screw (+PSW M3X8)
⑩ One screw (+BVTP2 4X16)
① One screw (+BVTP2 4X16)
⑬ Two screws (+PSW M3X8)
⑭ Two screws (+BVTP2 4X16)
③ Stay upper L
⑭ One screw (+BVTP2 4X16)
⑮ Stay lower R
④ One screw (+BVTP2 4X16)
⑤ One screw (+PSW M3X8)
⑥ Stay upper R

1-1-10. LOUD SPEAKER REMOVAL



1-1-11. LCD PANEL, HW3 BOARD AND BEZEL ASSY REMOVAL


① Two screws (+BVTP2 4X16)
② Connector assy
③ LCD panel (40inch FHD TFT)
① One screw (+BVTP2 4X16)
⑤ Two screws (+BVTP 3X12)
④ HW3 board
⑤ Two screws (+BVTP 3X12)
Bezel assy

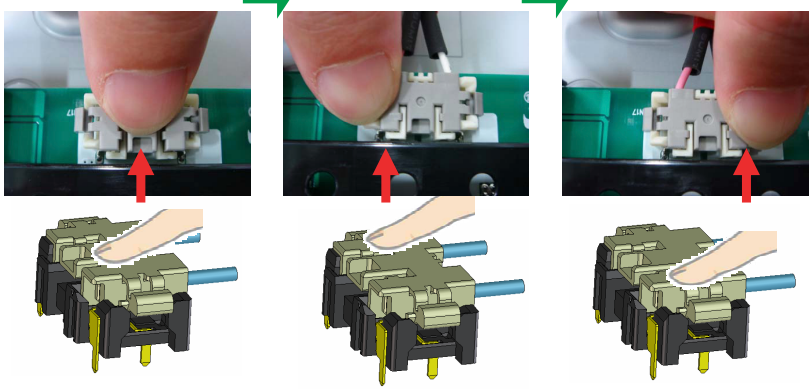
TO INSERT THE CONNECTOR

The connector might not be properly locked when only pressed from the middle.
Be sure to press both sides to confirm it is property locked.

① Press the middle part of the connector to insert till it locks.

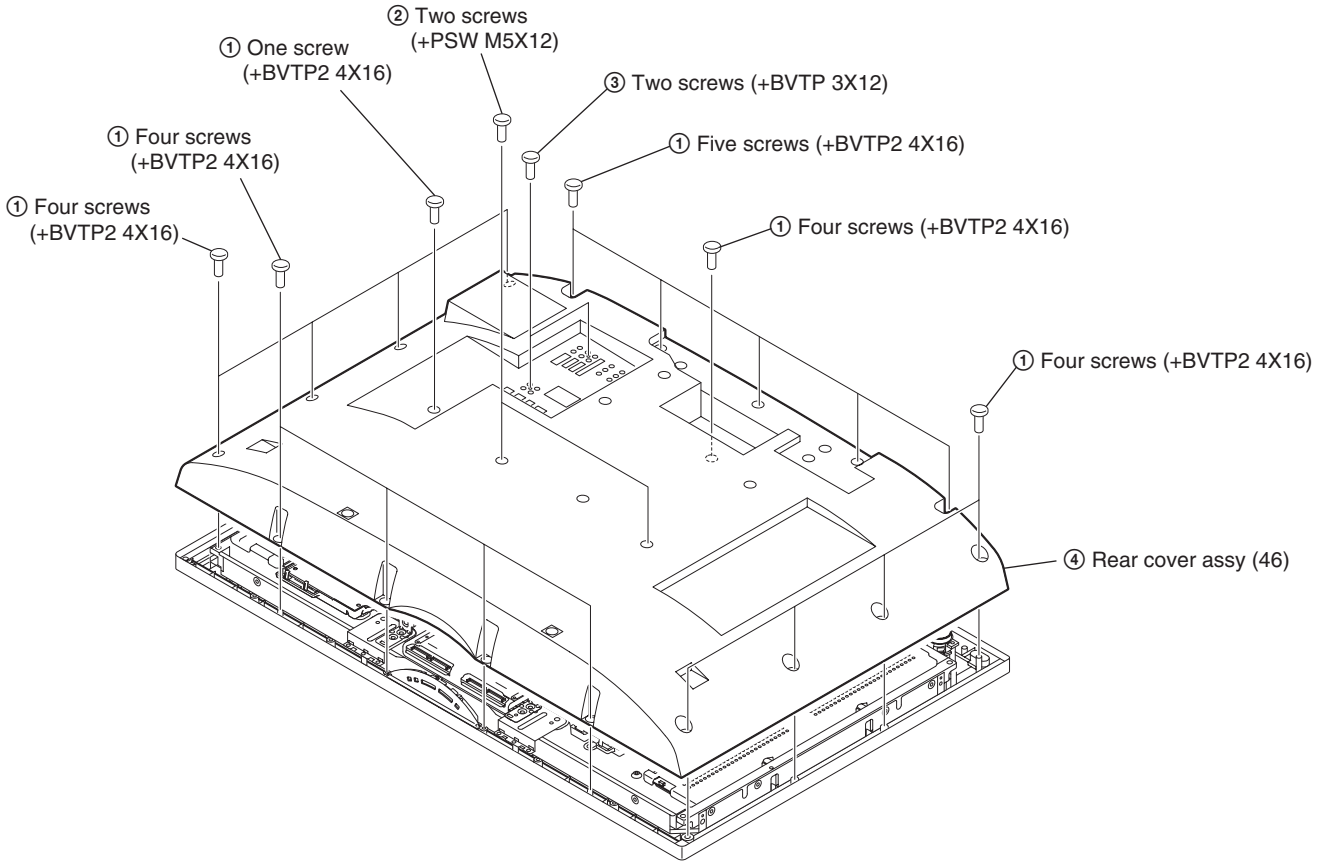
② Press the right side to confirm it is locked.

③ Press the left side to confirm it is locked.

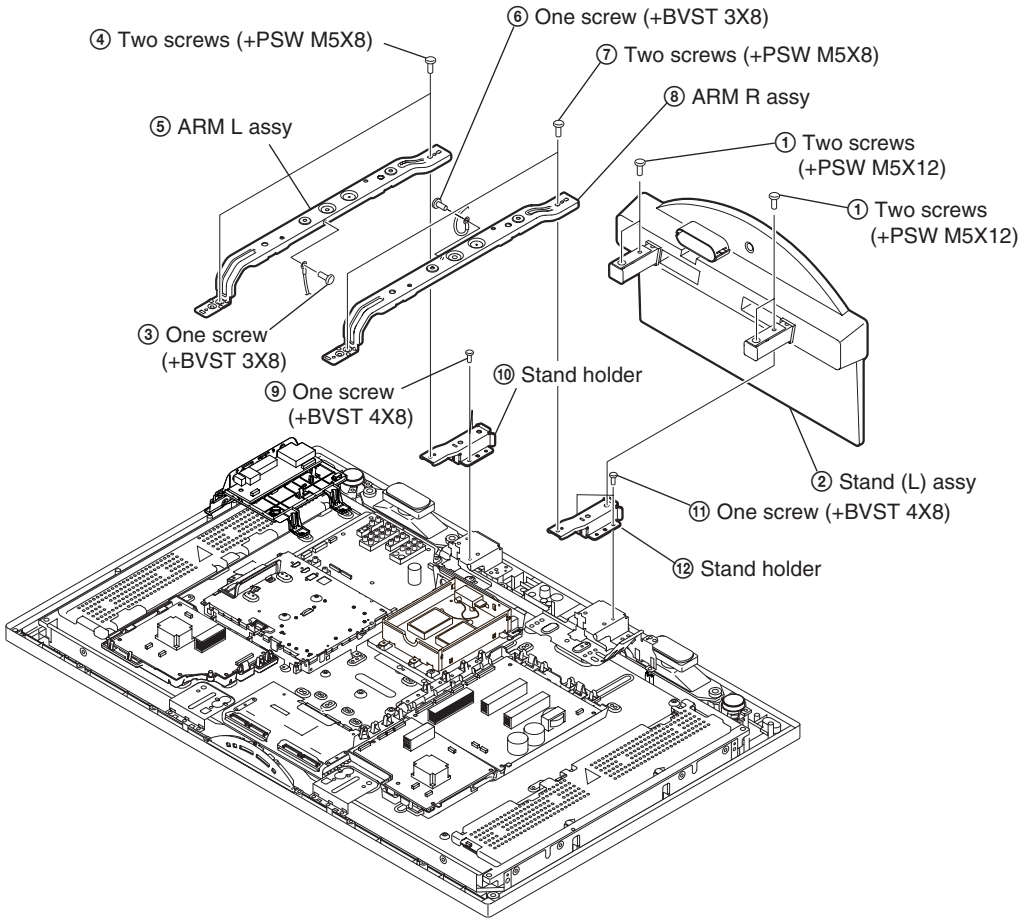


1-2. KLV-46W300A

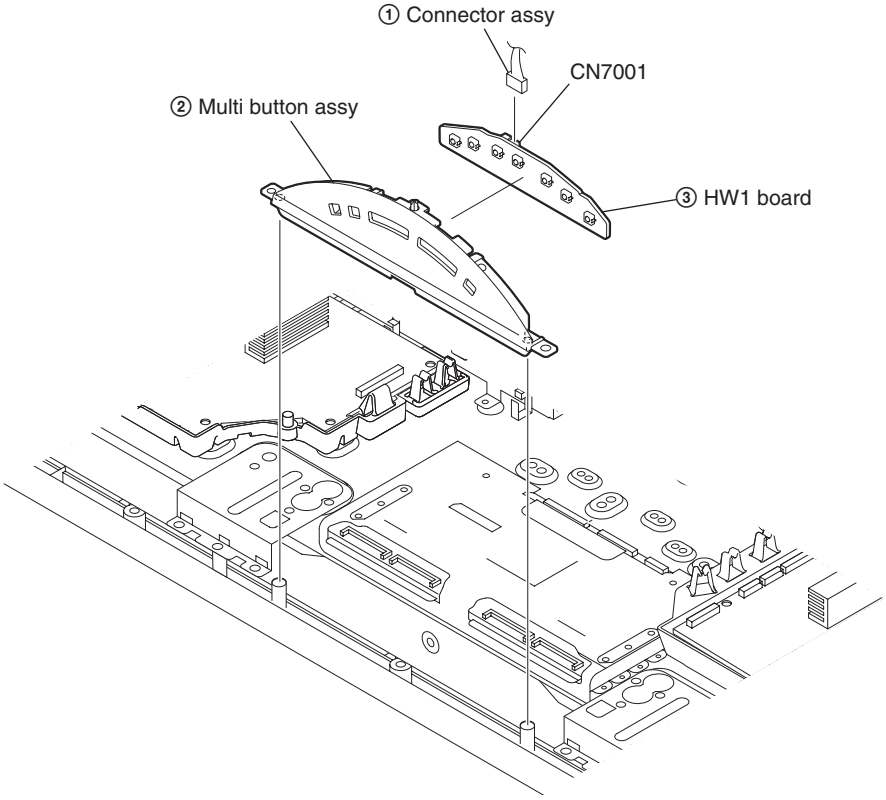
1-2-1. REAR COVER ASSY REMOVAL


② Two screws (+PSW M5X12)
① One screw (+BVTP2 4X16)
③ Two screws (+BVTP 3X12)
① Four screws (+BVTP2 4X16)
① Five screws (+BVTP2 4X16)
① Four screws (+BVTP2 4X16)
① Four screws (+BVTP2 4X16)
① Four screws (+BVTP2 4X16)
④ Rear cover assy (46)

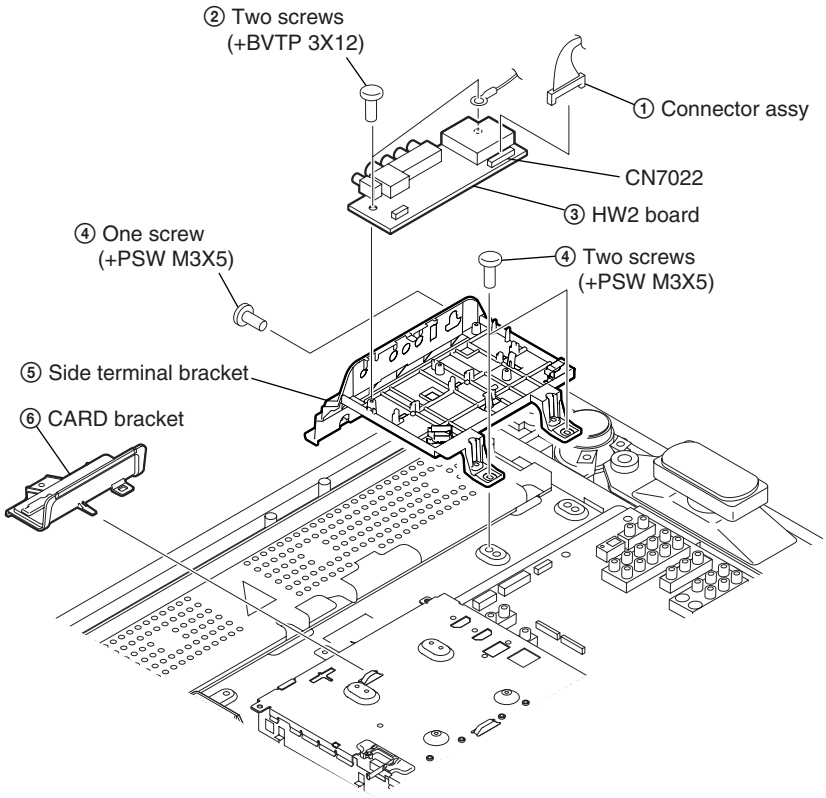
1-2-2. STAND ASSY AND ARM ASSY REMOVAL


⑥ One screw (+BVST 3X8)
④ Two screws (+PSW M5X8)
⑦ Two screws (+PSW M5X8)
⑧ ARM R assy
⑤ ARM L assy
① Two screws (+PSW M5X12)
① Two screws (+PSW M5X12)
③ One screw (+BVST 3X8)
⑩ Stand holder
⑨ One screw (+BVST 4X8)
② Stand (L) assy
⑪ One screw (+BVST 4X8)
⑫ Stand holder

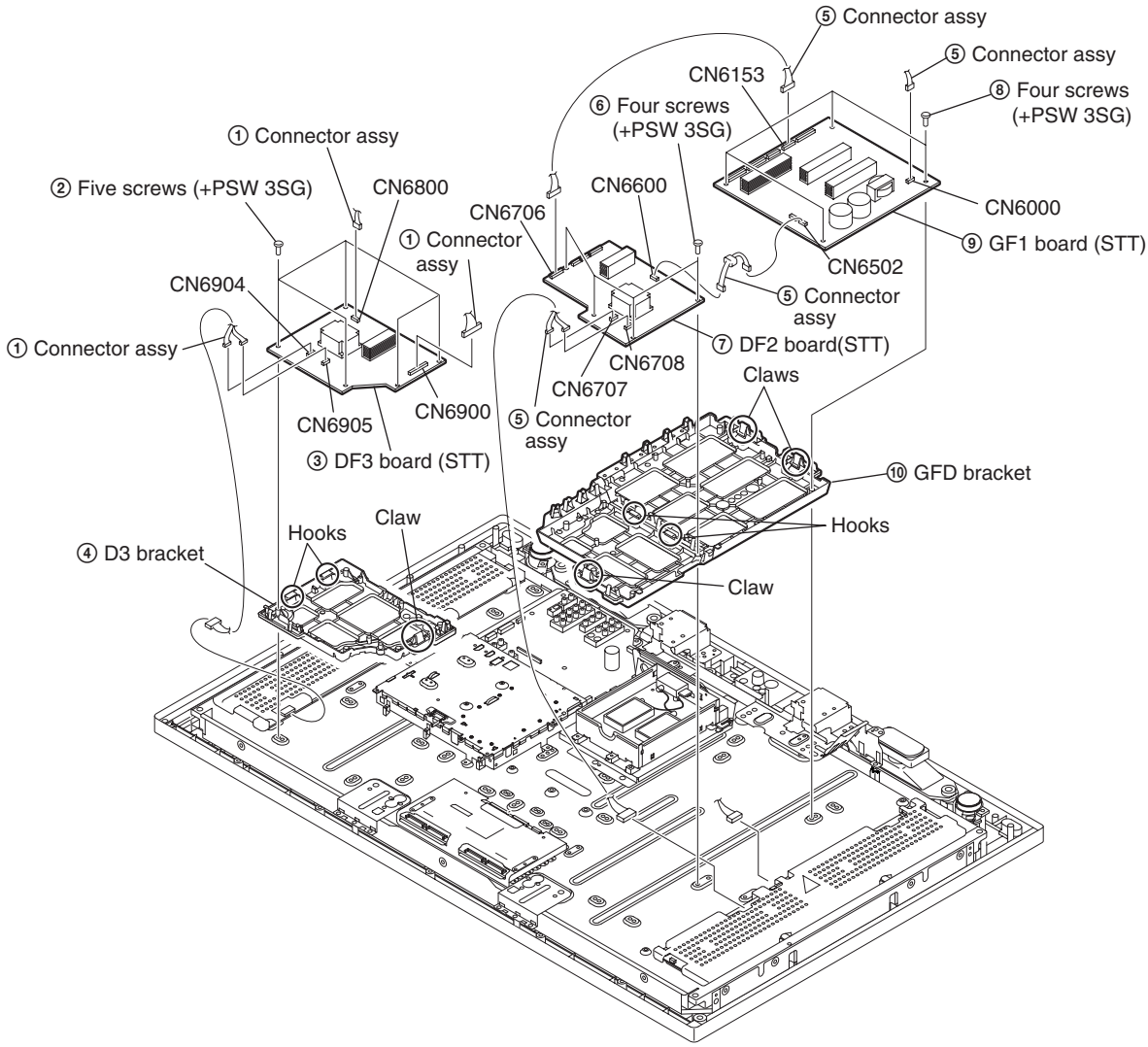
1-2-3. MULTI BUTTON ASSY AND HW1 BOARD REMOVAL



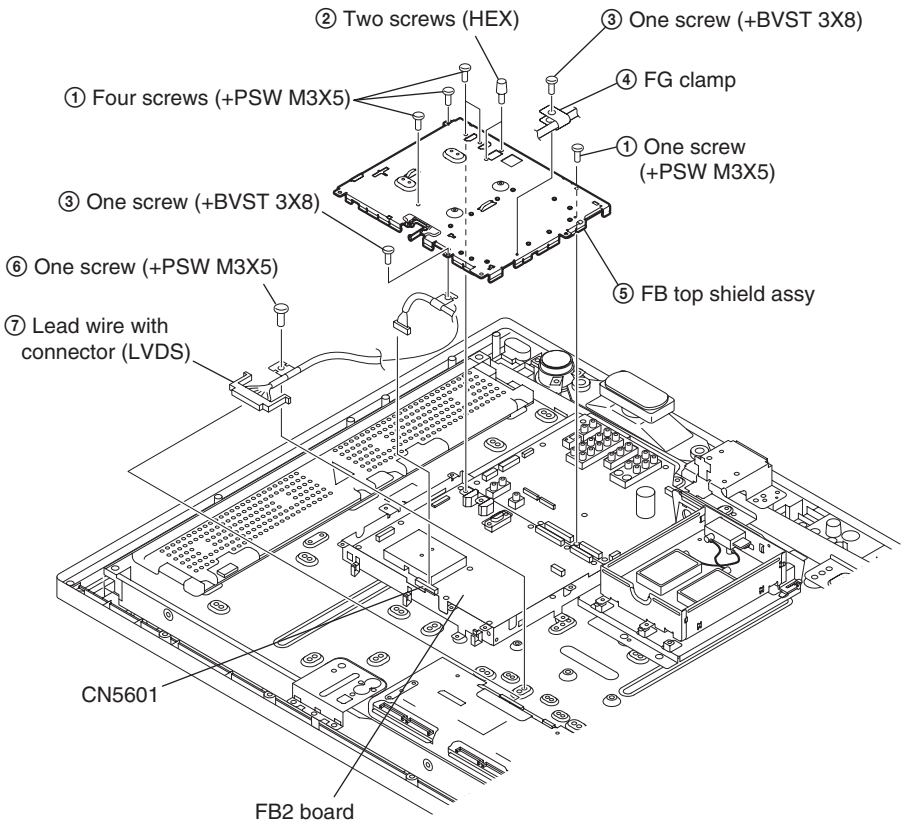
1-2-4. HW2 BOARD REMOVAL



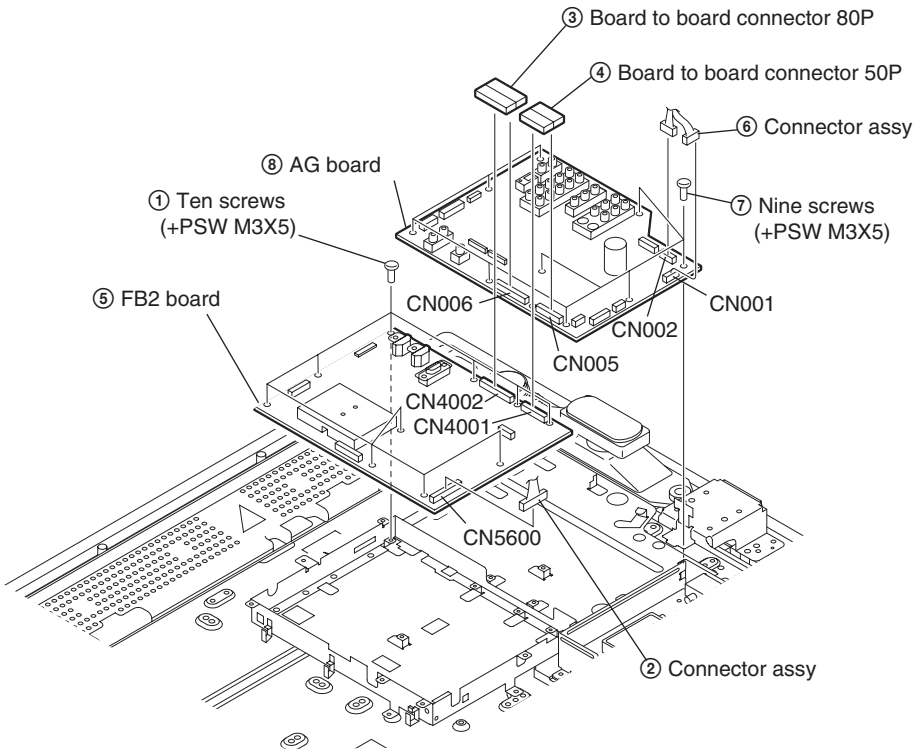
1-2-5. DF2, DF3 AND GF1 BOARDS REMOVAL



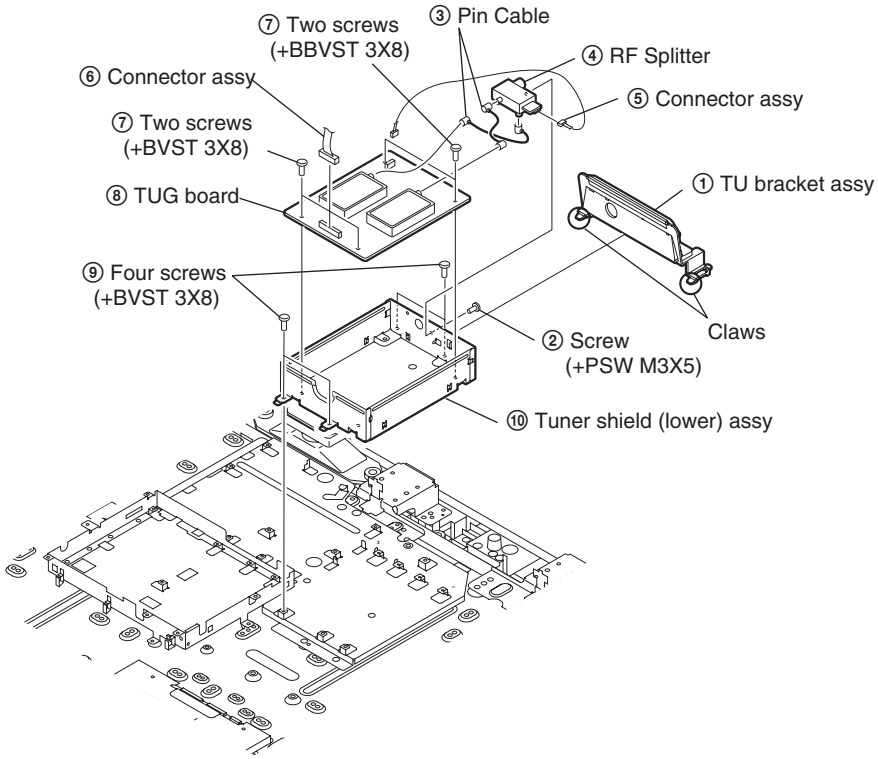
1-2-6. FB TOP SHIELD ASSY REMOVAL


② Two screws (HEX)
③ One screw (+BVST 3X8)
④ FG clamp
① Four screws (+PSW M3X5)
① One screw (+PSW M3X5)
③ One screw (+BVST 3X8)
⑥ One screw (+PSW M3X5)
⑤ FB top shield assy
⑦ Lead wire with connector (LVDS)
CN5601
FB2 board

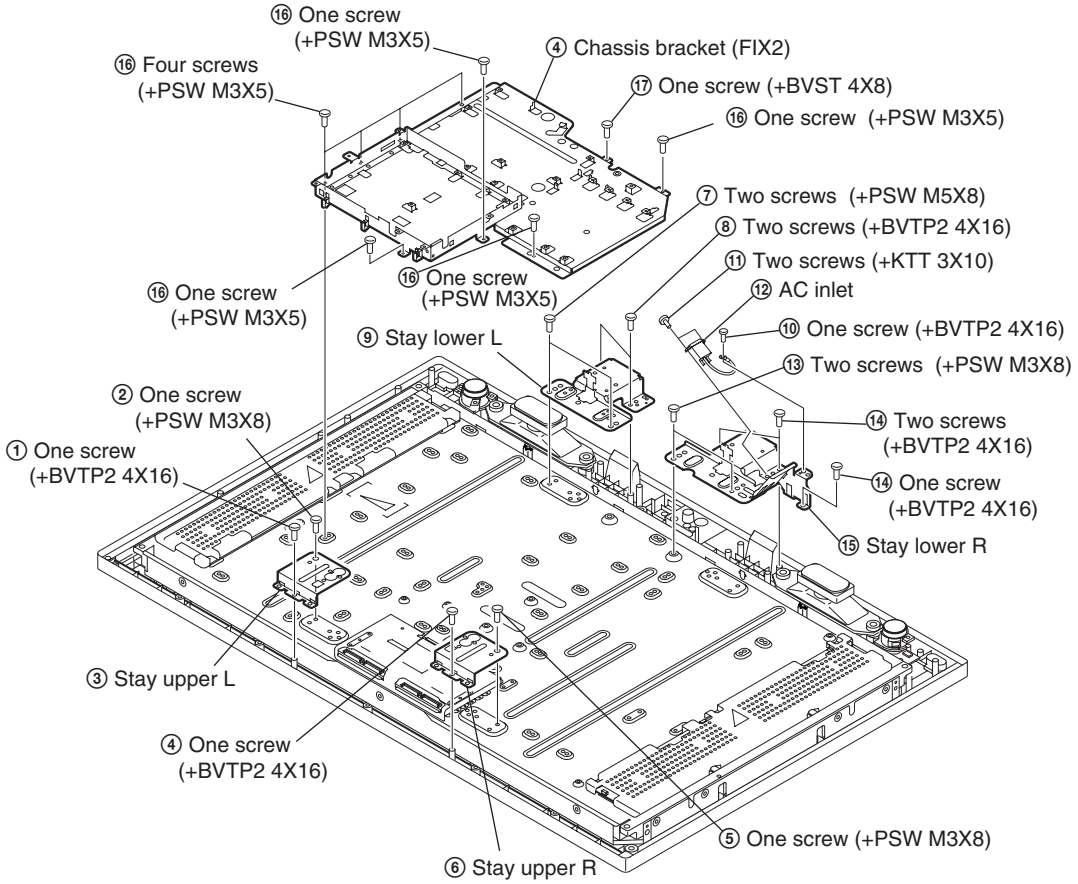
1-2-7. AG AND FB2 BOARDS REMOVAL



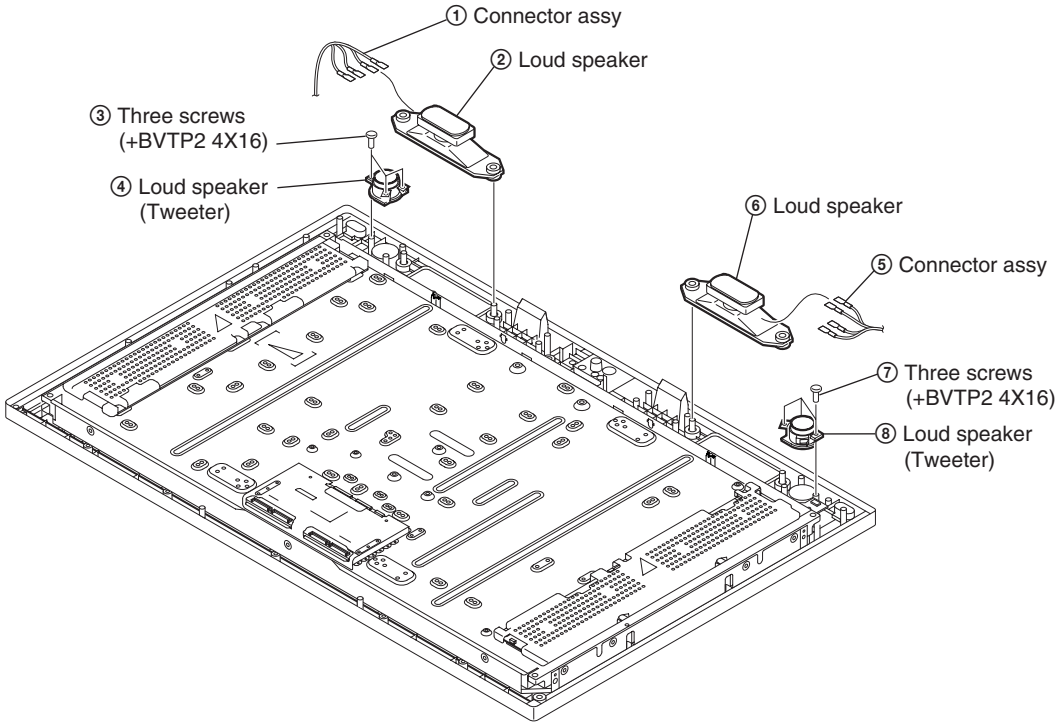
1-2-8. TUG BOARD REMOVAL



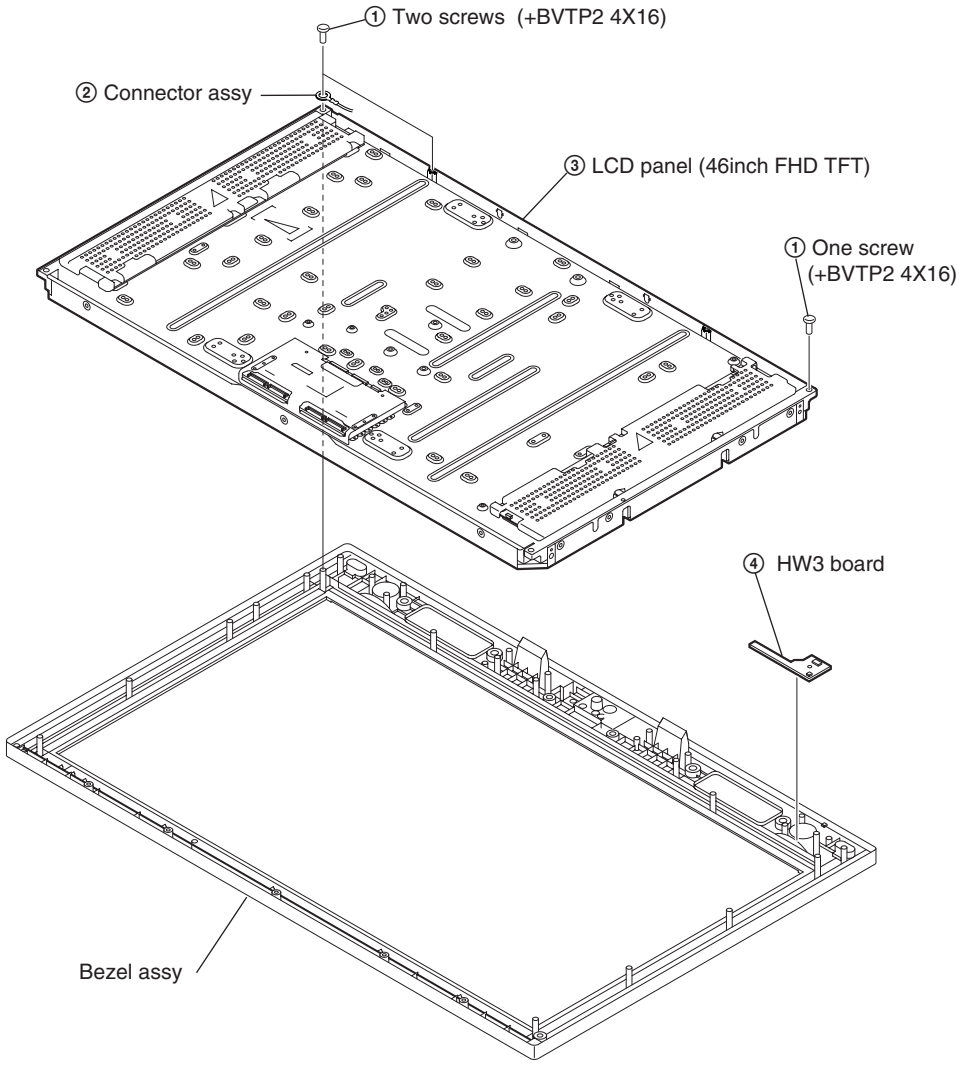
1-2-9. AC INLET, CHASSIS BRACKET AND STAY REMOVAL


⑯ One screw (+PSW M3X5)
④ Chassis bracket (FIX2)
⑯ Four screws (+PSW M3X5)
⑰ One screw (+BVST 4X8)
⑯ One screw (+PSW M3X5)
⑦ Two screws (+PSW M5X8)
⑧ Two screws (+BVTP2 4X16)
⑪ Two screws (+KTT 3X10)
⑫ AC inlet
⑯ One screw (+PSW M3X5)
⑯ One screw (+PSW M3X5)
⑩ One screw (+BVTP2 4X16)
⑨ Stay lower L
⑬ Two screws (+PSW M3X8)
② One screw (+PSW M3X8)
⑭ Two screws (+BVTP2 4X16)
① One screw (+BVTP2 4X16)
⑭ One screw (+BVTP2 4X16)
⑮ Stay lower R
③ Stay upper L
④ One screw (+BVTP2 4X16)
⑤ One screw (+PSW M3X8)
⑥ Stay upper R

1-2-10. LOUD SPEAKER REMOVAL



1-2-11. LCD PANEL, HW3 BOARD AND BEZEL ASSY REMOVAL



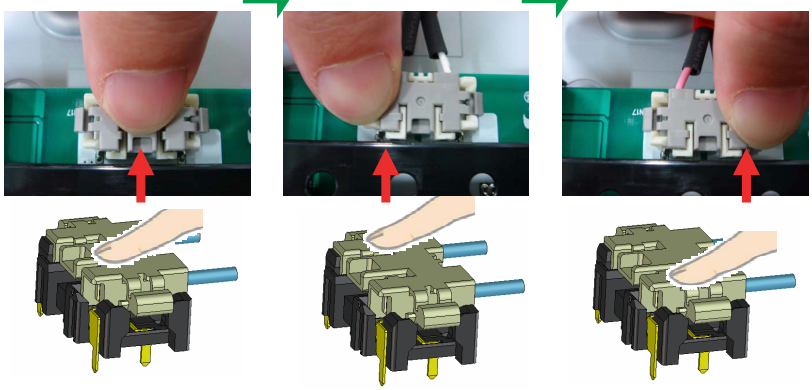
TO INSERT THE CONNECTOR

The connector might not be properly locked when only pressed from the middle.
Be sure to press both sides to confirm it is property locked.

① Press the middle part of the connector to insert till it locks.

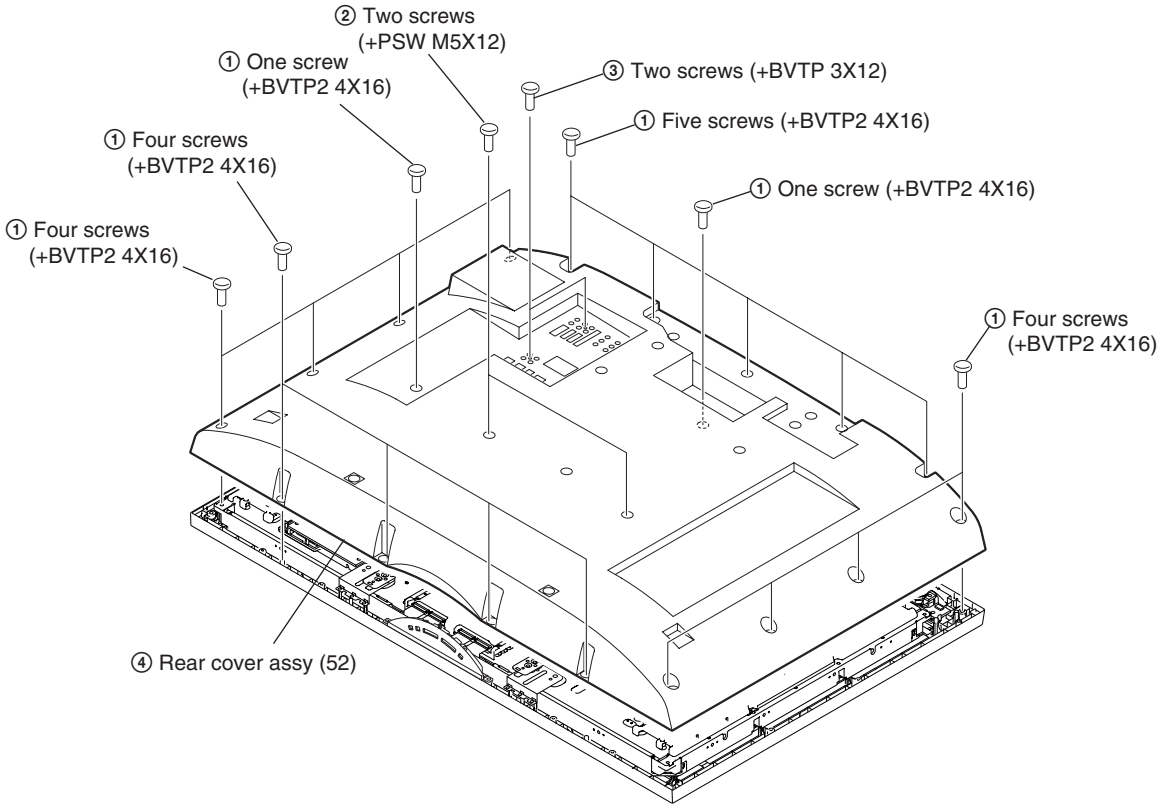
② Press the right side to confirm it is locked.

③ Press the left side to confirm it is locked.

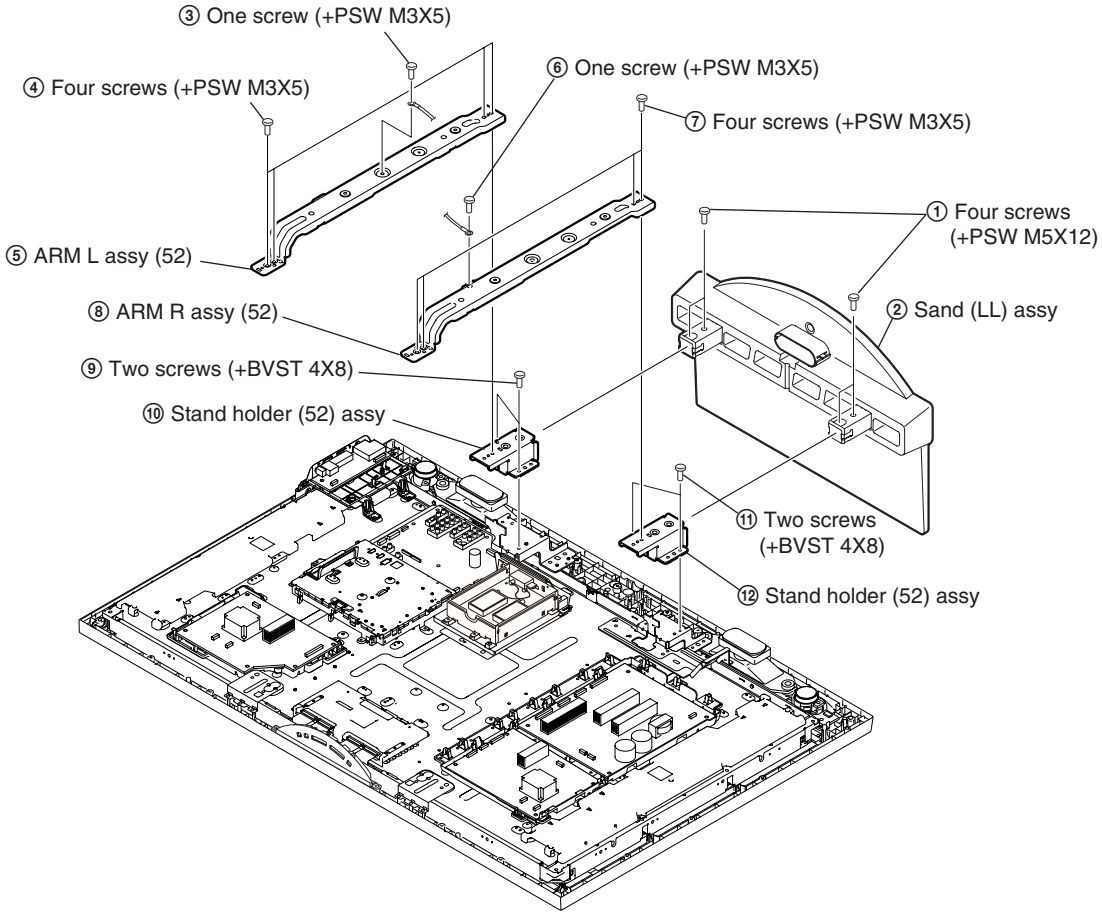


1-3. KLV-52W300A

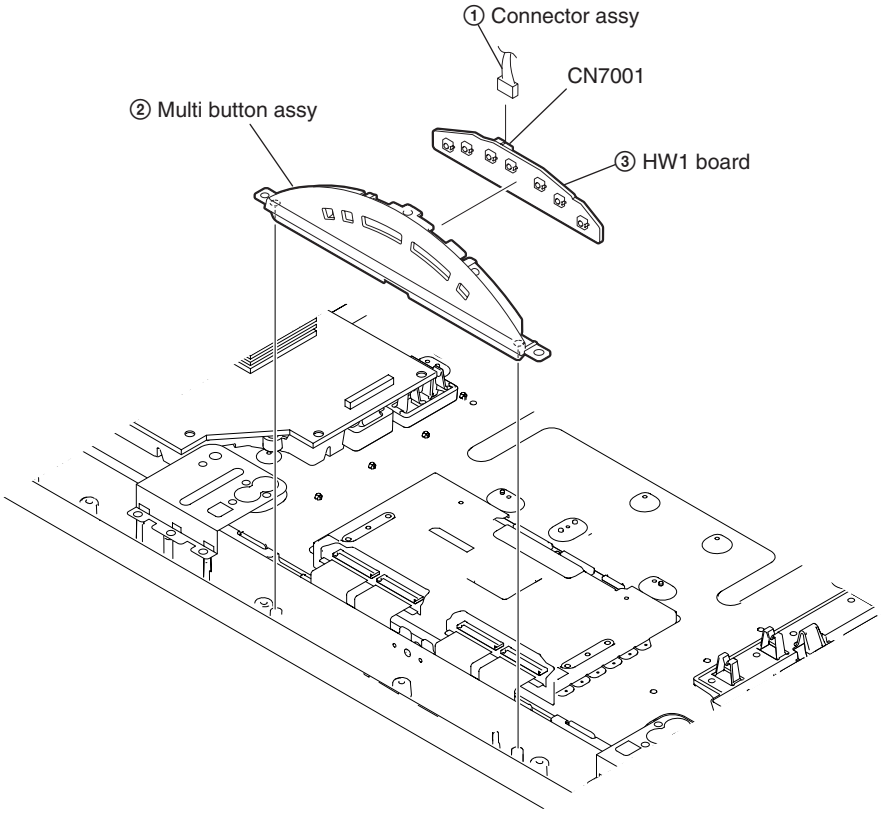
1-3-1. REAR COVER ASSY REMOVAL



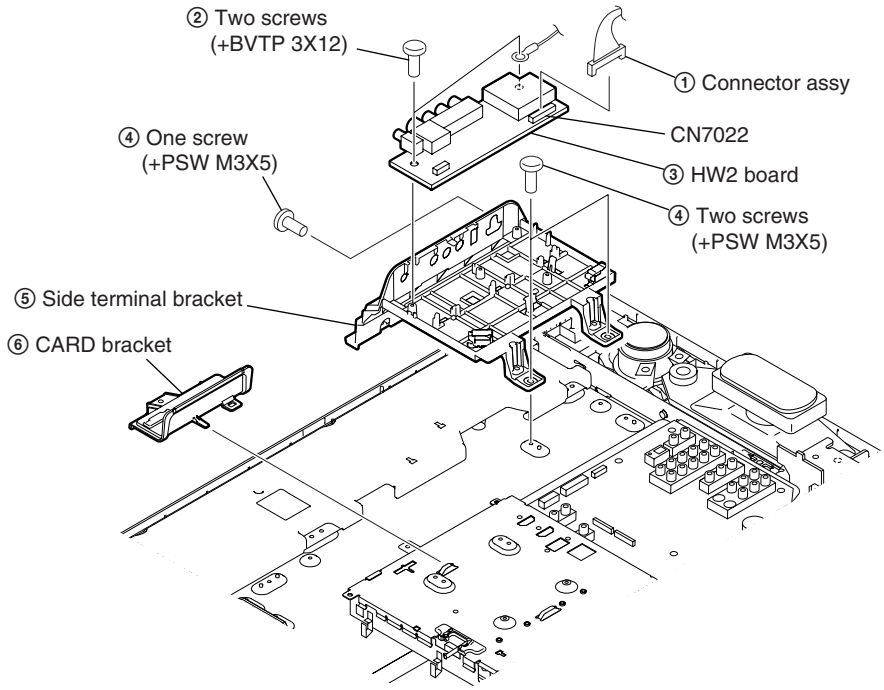
1-3-2. STAND ASSY AND ARM ASSY REMOVAL


③ One screw (+PSW M3X5)
⑥ One screw (+PSW M3X5)
④ Four screws (+PSW M3X5)
⑦ Four screws (+PSW M3X5)
① Four screws
(+PSW M5X12)
⑤ ARM L assy (52)
② Sand (LL) assy
⑧ ARM R assy (52)
⑨ Two screws (+BVST 4X8)
⑩ Stand holder (52) assy
⑪ Two screws
(+BVST 4X8)
⑫ Stand holder (52) assy

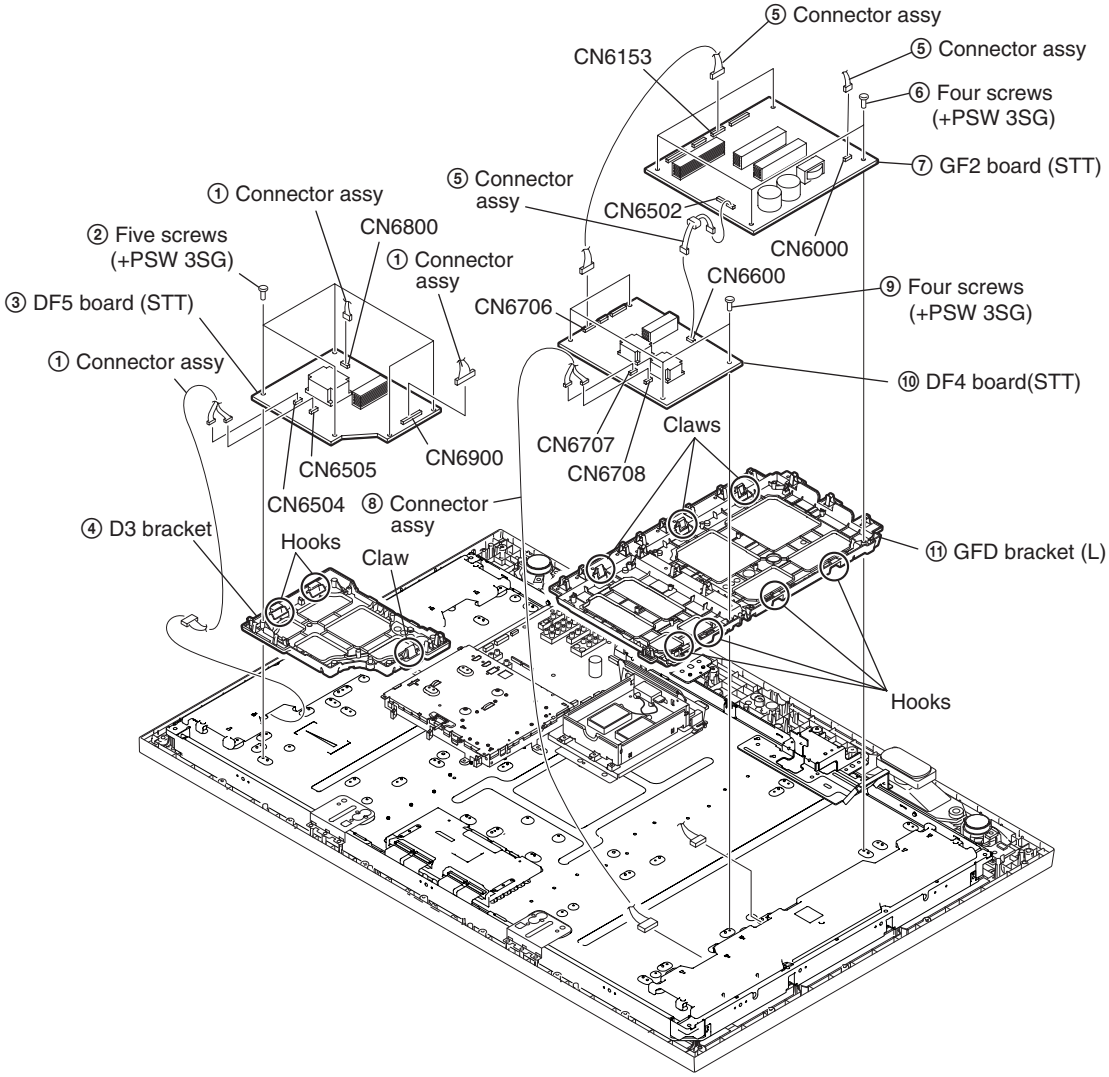
1-3-3. MULTI BUTTON ASSY AND HW1 BOARD REMOVAL



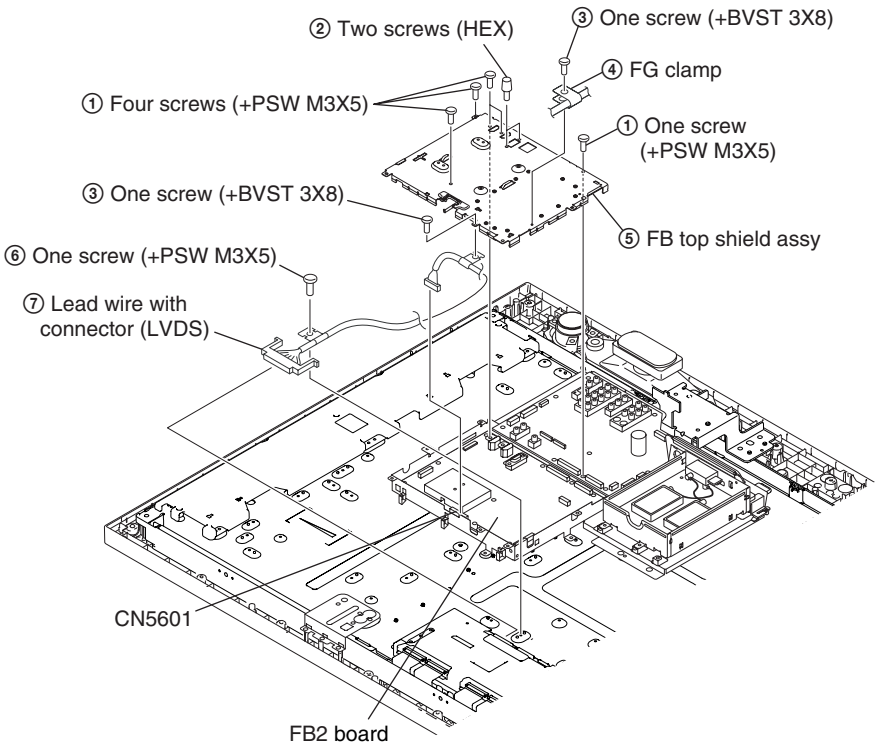
1-3-4. HW2 BOARD REMOVAL



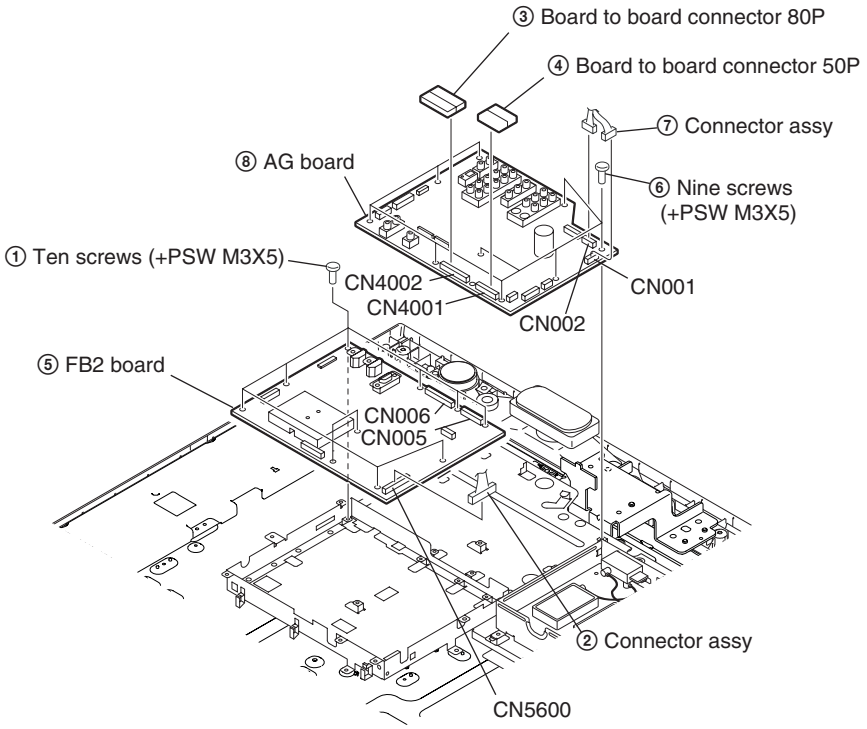
1-3-5. DF4, DF5 AND GF2 BOARDS REMOVAL



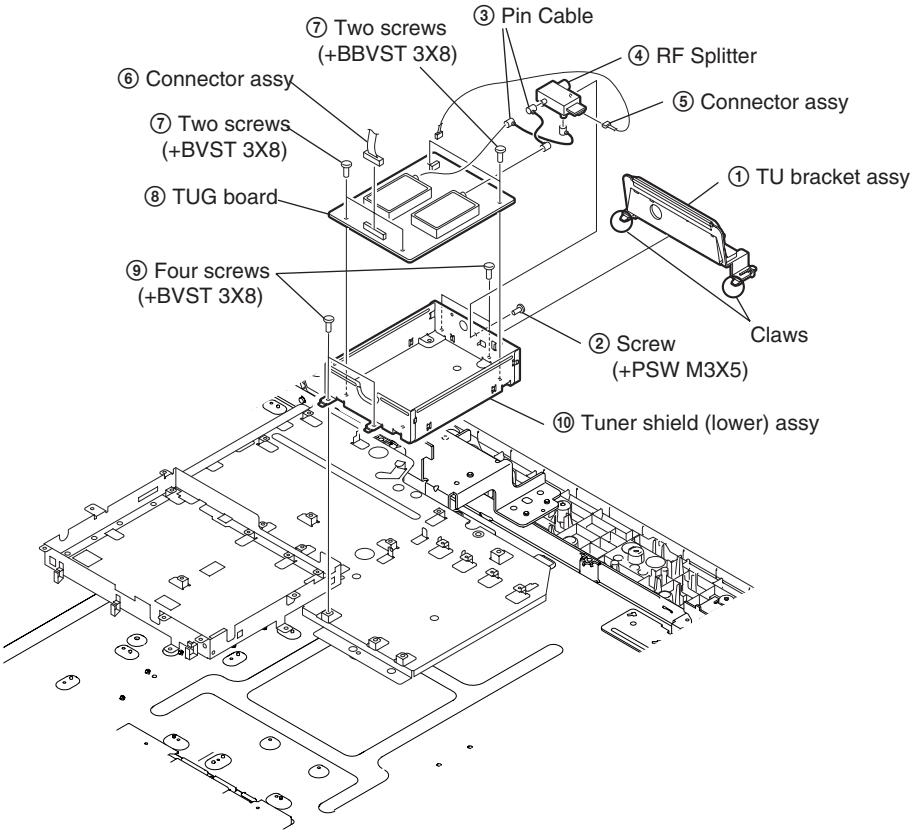
1-3-6. FB TOP SHIELD ASSY REMOVAL


② Two screws (HEX)
③ One screw (+BVST 3X8)
④ FG clamp
① Four screws (+PSW M3X5)
① One screw (+PSW M3X5)
③ One screw (+BVST 3X8)
⑤ FB top shield assy
⑥ One screw (+PSW M3X5)
⑦ Lead wire with connector (LVDS)
CN5601
FB2 board

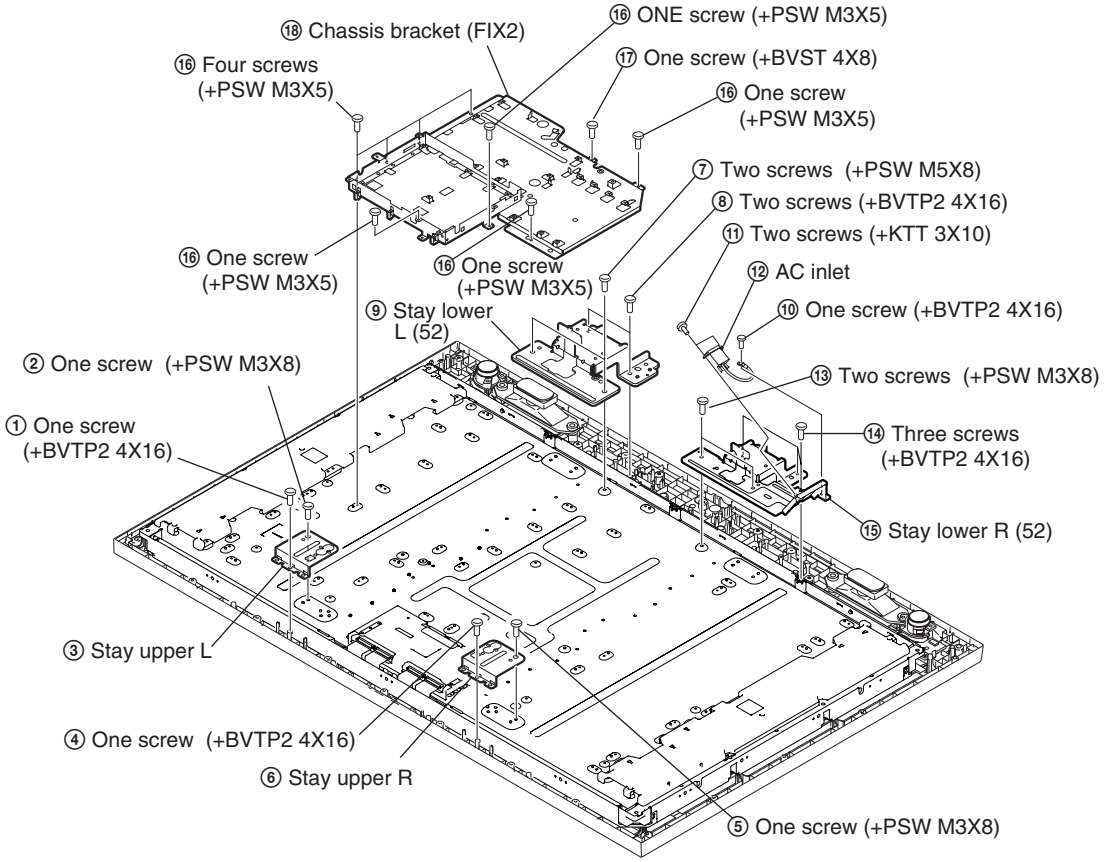
1-3-7. AG AND FB2 BOARDS REMOVAL



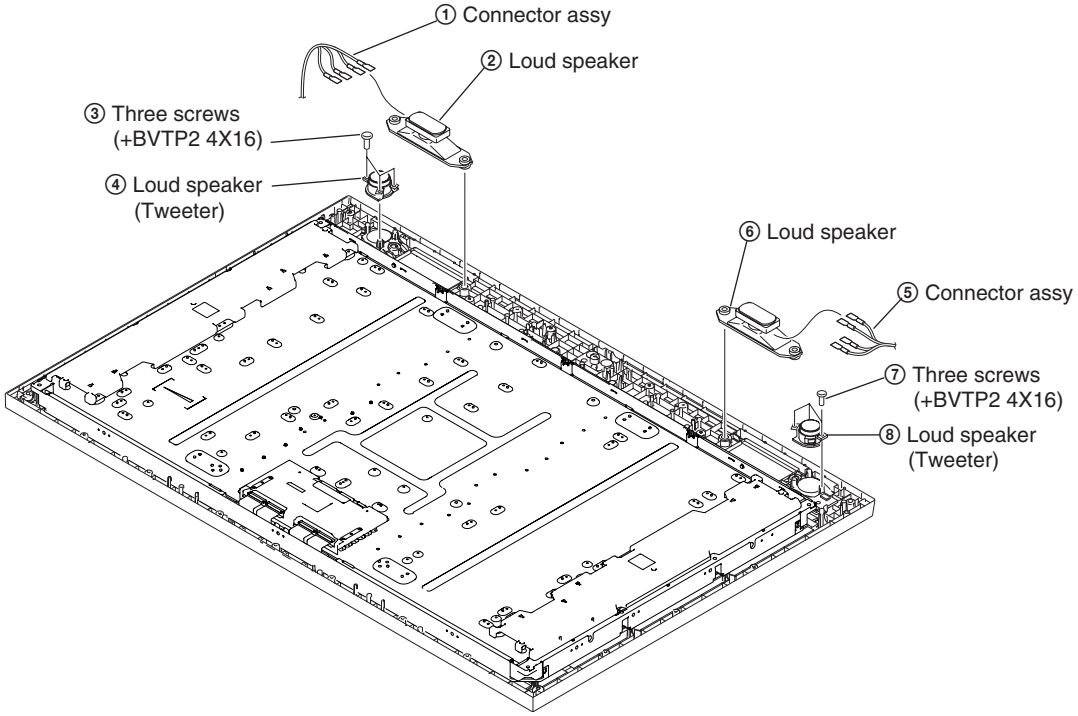
1-3-8. TUG BOARD REMOVAL



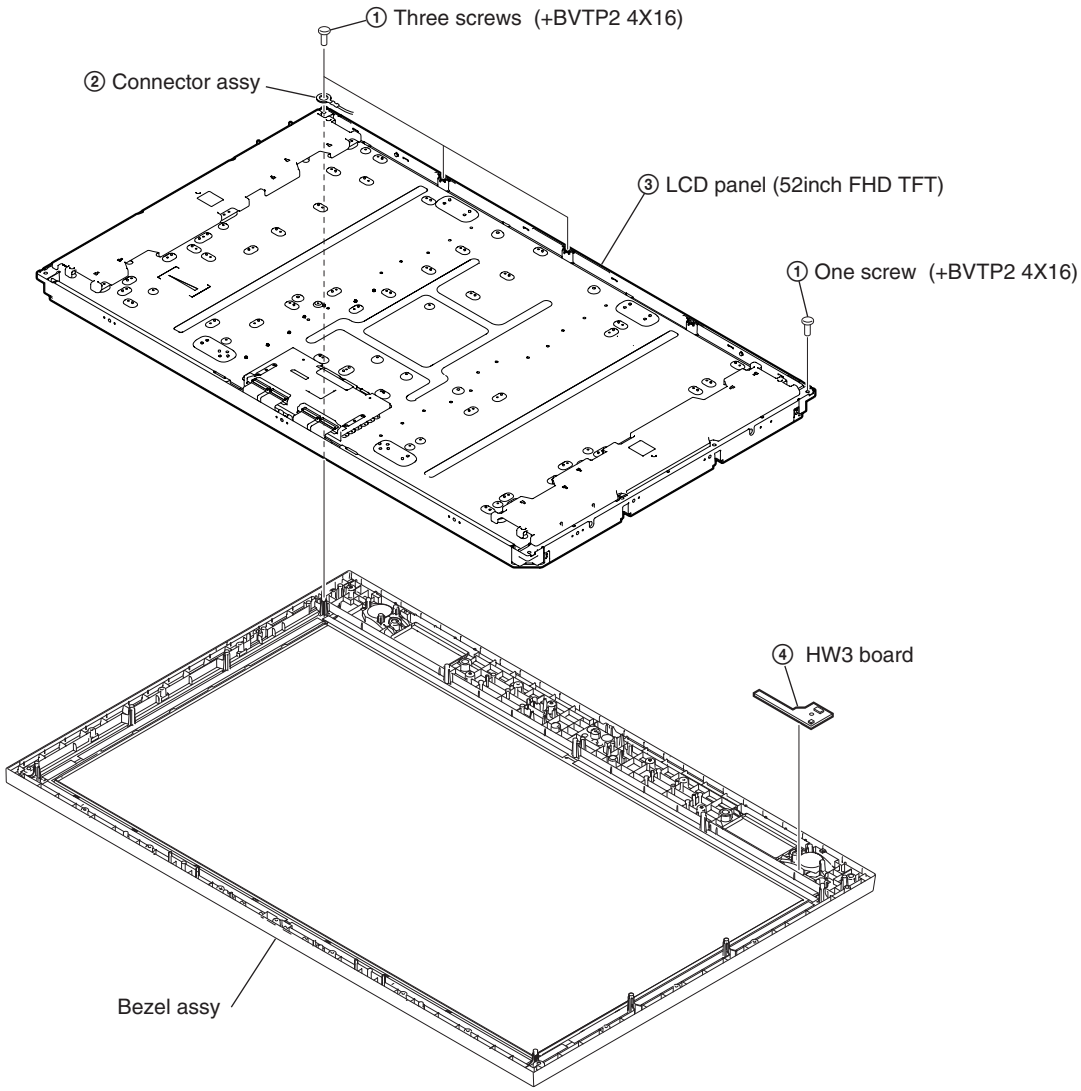
1-3-9. AC INLET, CHASSIS BRACKET AND STAY REMOVAL


⑱ Chassis bracket (FIX2)
⑯ ONE screw (+PSW M3X5)
⑯ Four screws (+PSW M3X5)
⑰ One screw (+BVST 4X8)
⑯ One screw (+PSW M3X5)
⑦ Two screws (+PSW M5X8)
⑧ Two screws (+BVTP2 4X16)
⑪ Two screws (+KTT 3X10)
⑯ One screw (+PSW M3X5)
⑯ One screw (+PSW M3X5)
⑫ AC inlet
⑨ Stay lower L (52)
⑩ One screw (+BVTP2 4X16)
② One screw (+PSW M3X8)
⑬ Two screws (+PSW M3X8)
① One screw (+BVTP2 4X16)
⑭ Three screws (+BVTP2 4X16)
⑮ Stay lower R (52)
③ Stay upper L
④ One screw (+BVTP2 4X16)
⑥ Stay upper R
⑤ One screw (+PSW M3X8)

1-3-10. LOUD SPEAKER ASSY REMOVAL



1-3-11. LCD PANEL, HW3 BOARD AND BEZEL ASSY REMOVAL



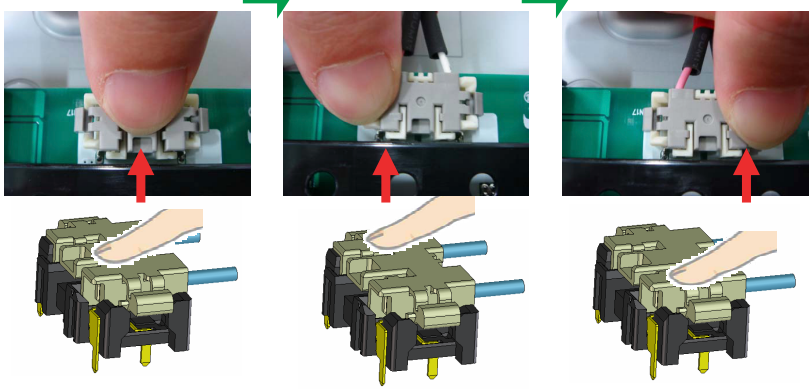
TO INSERT THE CONNECTOR

The connector might not be properly locked when only pressed from the middle.
Be sure to press both sides to confirm it is property locked.

① Press the middle part of the connector to insert till it locks.

② Press the right side to confirm it is locked.

③ Press the left side to confirm it is locked.

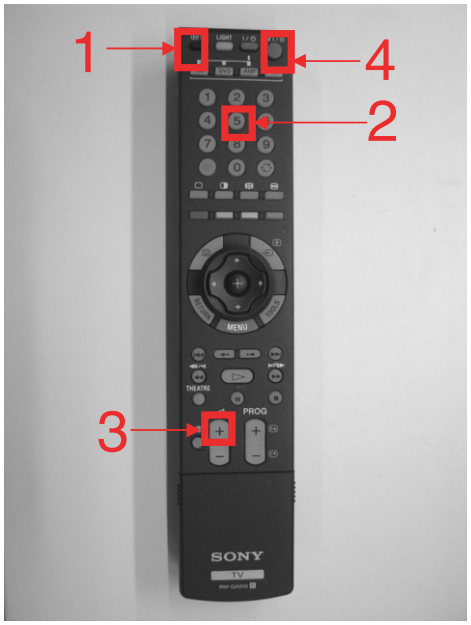


How to go to service mode

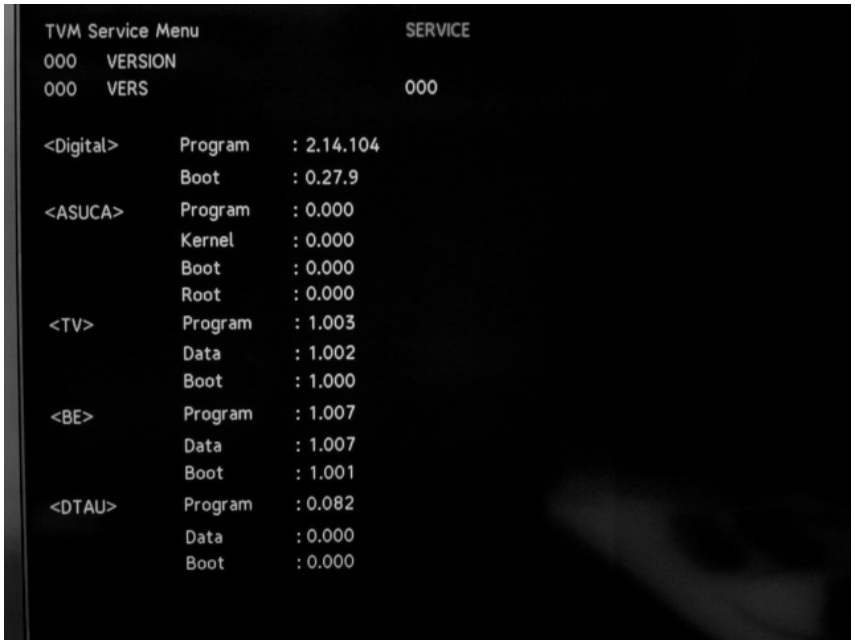
2-1. Go to TV standby condition.

2-2. Entering Service Mode

1. Push “i+ (info)”, “5”, “Volume+” then “TV button”with remote commander.
2. Service mode menu will appear on display.



Remote Commander



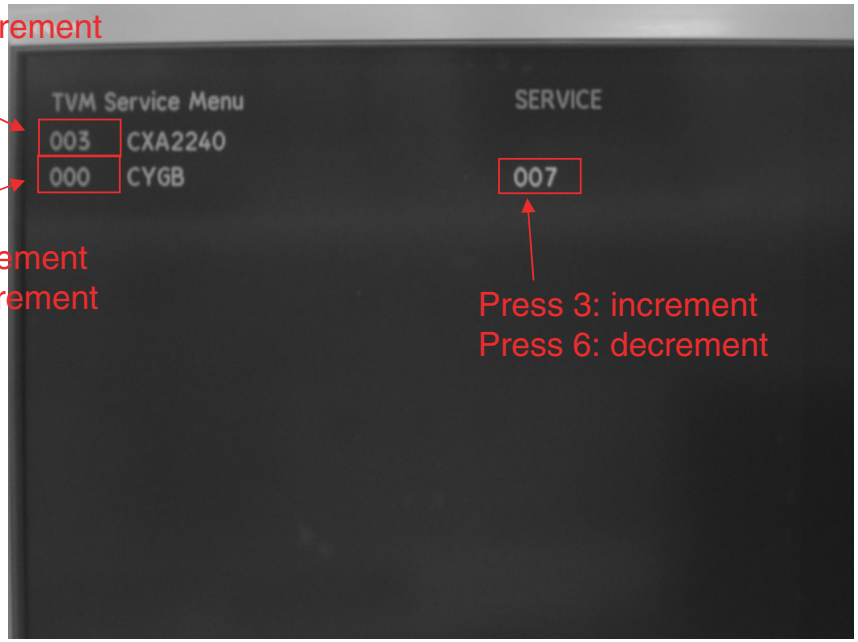
Service menu

Change data by service mode

2-3. Change Setting Data for TV

1. Press “2 / 5”on remote commander to select (up / down) category.
2. Press “1 / 4”on remote commander to select (up / down) Item.
3. Press “3 / 6”on remote commander to change (up / down) data.

Remote Commander

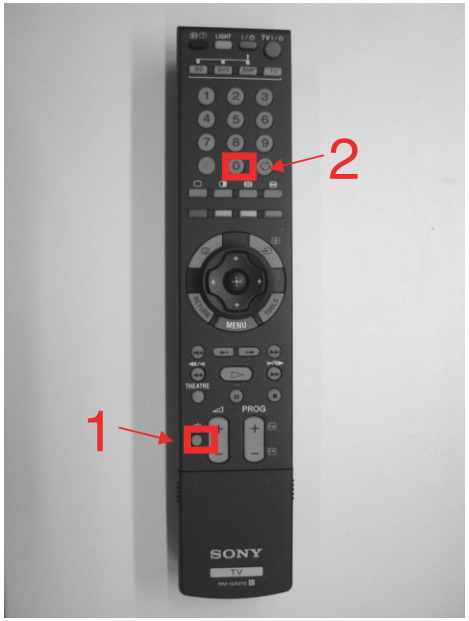


Service menu

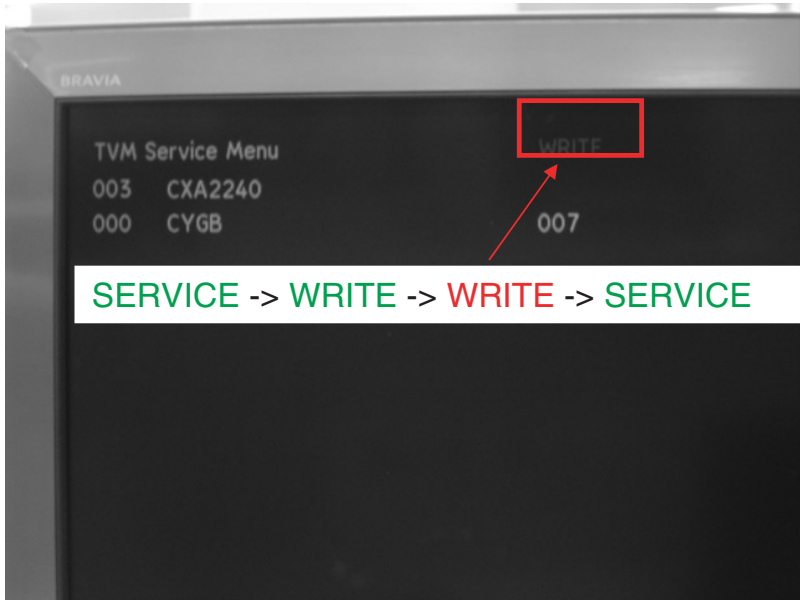
Change data by service mode

2-4. Write data for TVM

1. Press “Mute” on remote commander. It shows green “SERVICE” changes to green “WRITE”.
2. Press “0” on remote commander. Green “WRITE” changes to red “WRITE”. It indicates writing processing.
3. After for 1 minute, red “WRITE” changes to green “SERVICE”. Writing process is done at this point.



Remote Commander



Service menu

2-5. Entering BEM service menu

1. Press “Previous channel” on remote commander.

Remote Commander

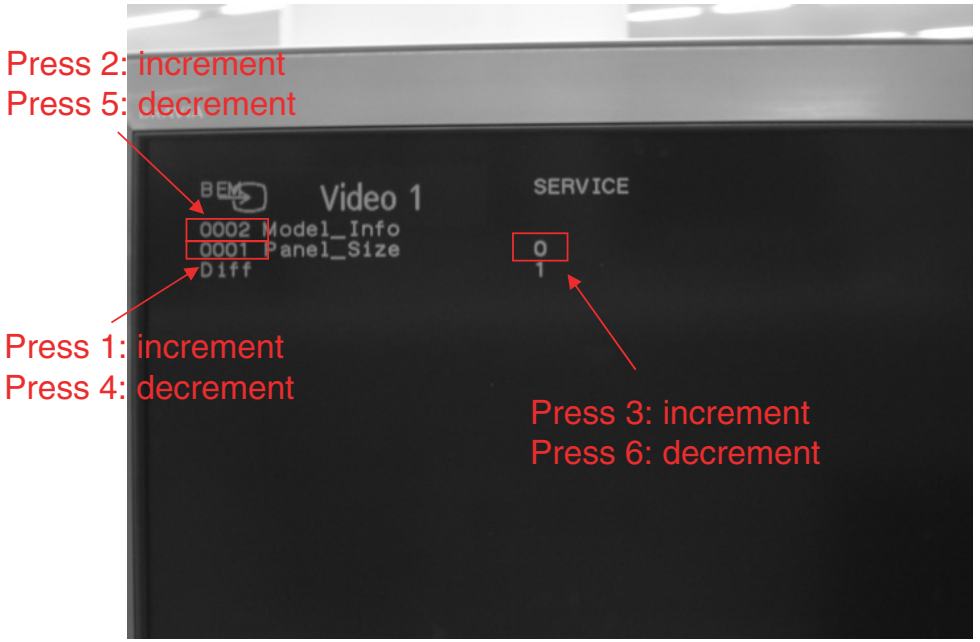
Service menu

Change Setting data by service mode

2-6. Change Setting Data for BEM

1. Press “2/5” on remote commander to select (up / down) category.
2. Press “1/4” on remote commander to select (up / down) Item.
3. Press “3/6” on remote commander to change (up / down) data.

Remote Commander

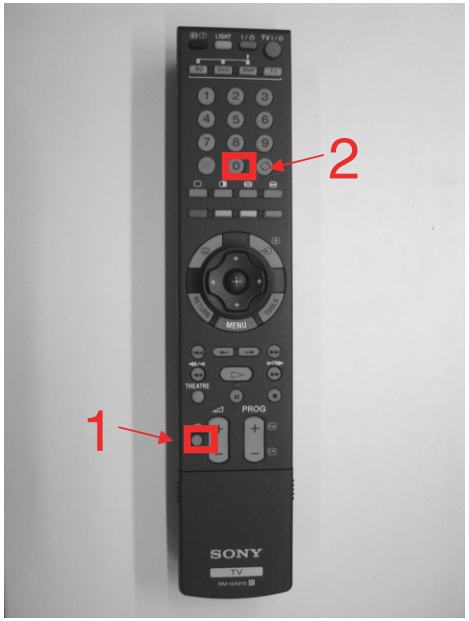


Service menu

Change data by service mode

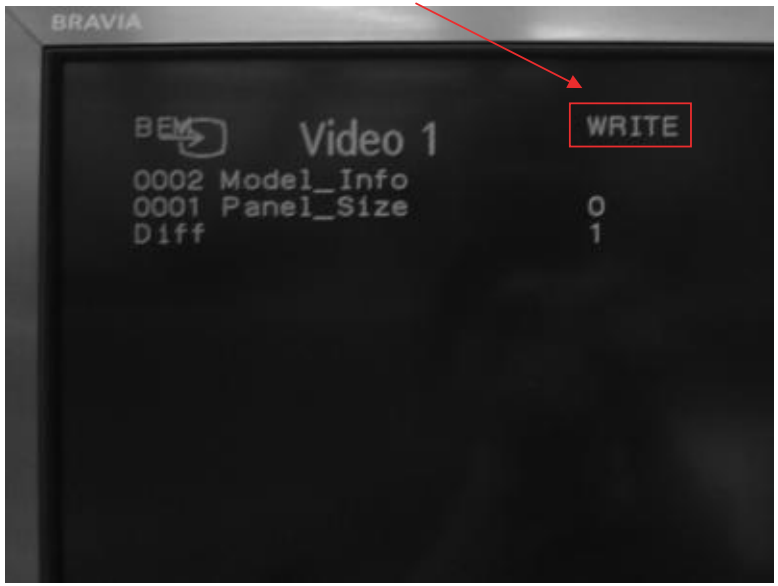
2-7. Write data for BEM

1. Press “Mute” on remote commander. It shows green “SERVICE” changes to green “WRITE”.
2. Press “0” on remote commander. Green “WRITE” changes to red “WRITE”. It indicates writing processing.
3. After for few second, red “WRITE” changes to green “SERVICE”. Writing process is done at this point.



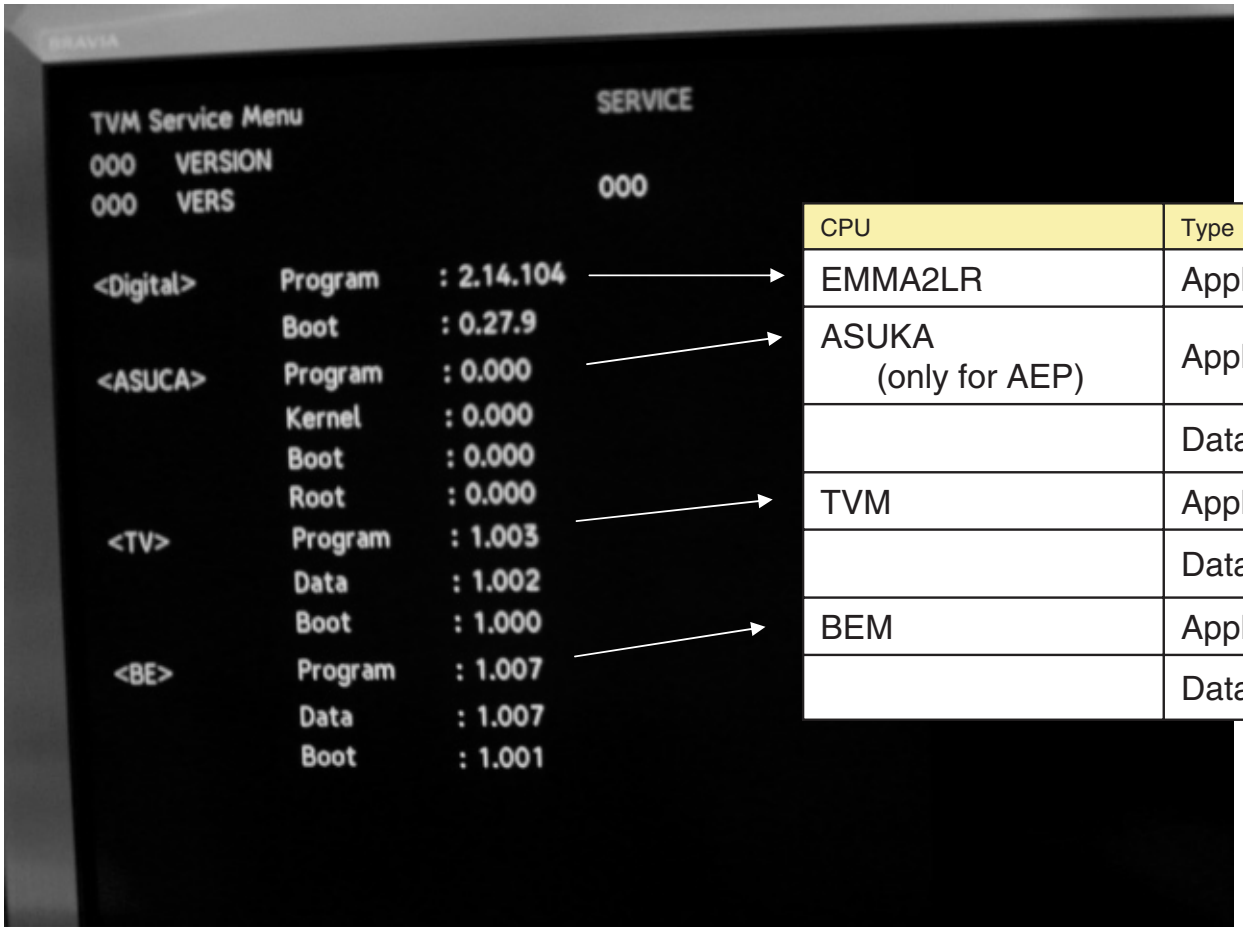
Remote Commander

SERVICE -> WRITE -> WRITE-> WRITE OK



Service menu

2-8. KLV-40/46/52W300A Model

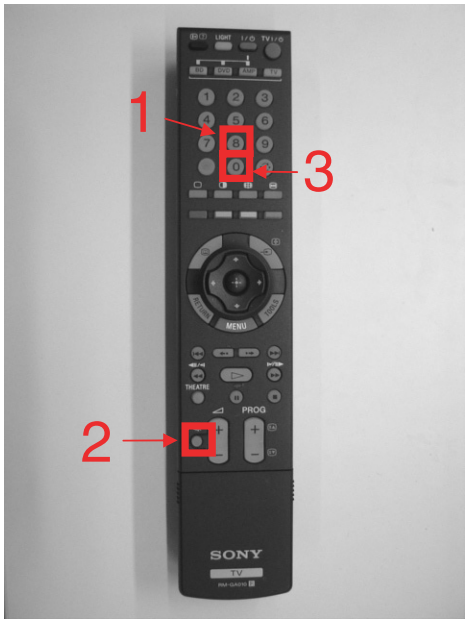


CPU	Type
EMMA2LR	Application
ASUKA (only for AEP)	Application
	Data
TVM	Application
	Data
BEM	Application
	Data

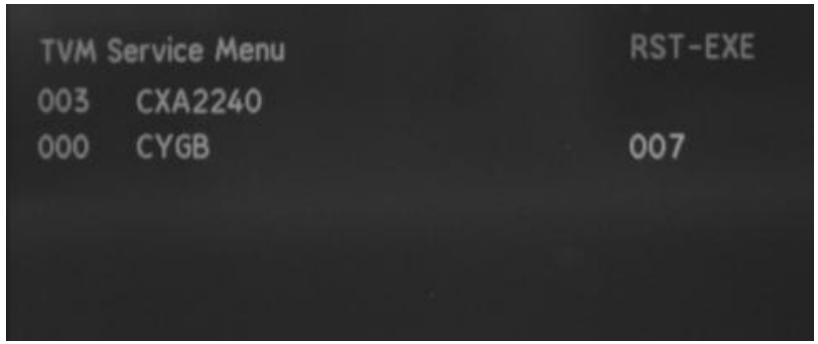
Set to shipping condition

2-9. How to change shipping condition.

1. During service mode, press “8” on remote commander.
2. Press “mute” on remote commander.
3. Press “0” on remote commander.
4. Display change to “SERVICE” → “RST-” → “RST-EXE” → “RST-EXE”

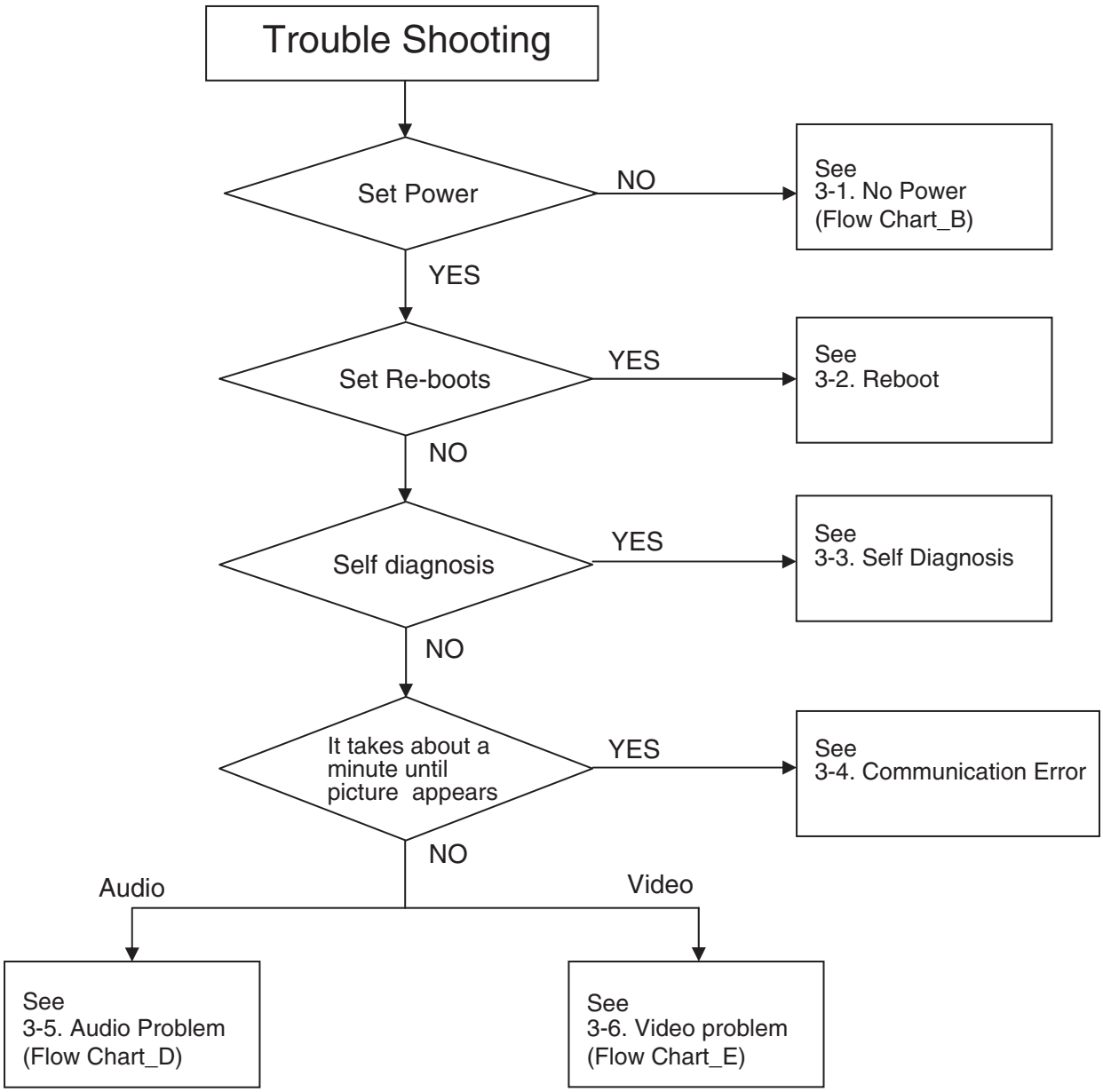


Remote Commander

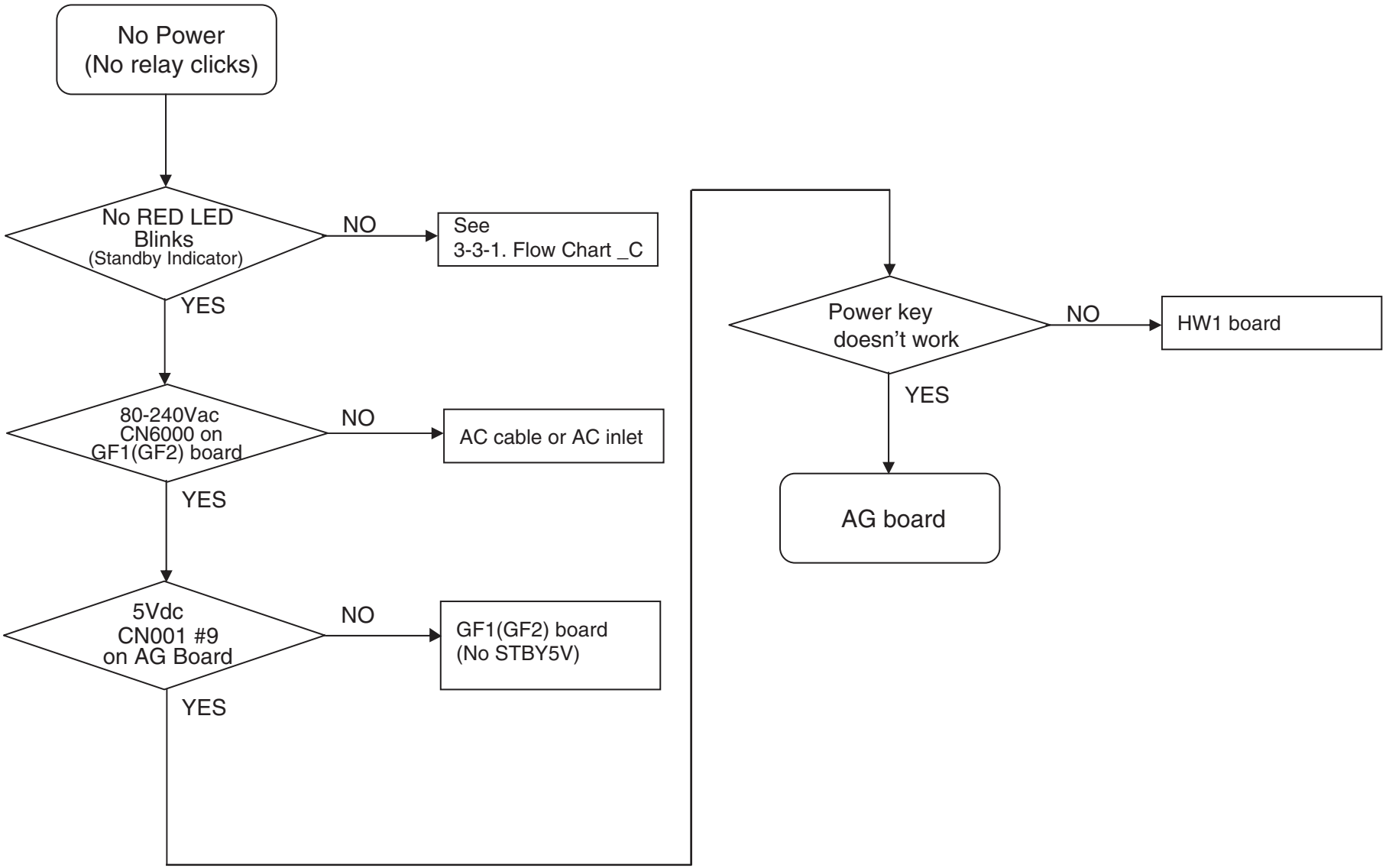


The error history will be reset.

SECTION 3
TROUBLE SHOOTING



3-1. No Power (Flow Chart_B)



3-2. Set Reboots

TV micro (on AG board) is monitoring BE Micro (on FB2 board) are alive or not like watch dog timer. When BEM has not boot up, TVM try to re-start. We can see chassis reboot at this case. Check FB2 board has correct power or not.

- FB2 board
  - CN 5600 12V, 6.5V power and harness to GF1(GF2) Board.
  - F4100, F4102, F5200 conduction.

If power rail has no problem, replace FB2 board.

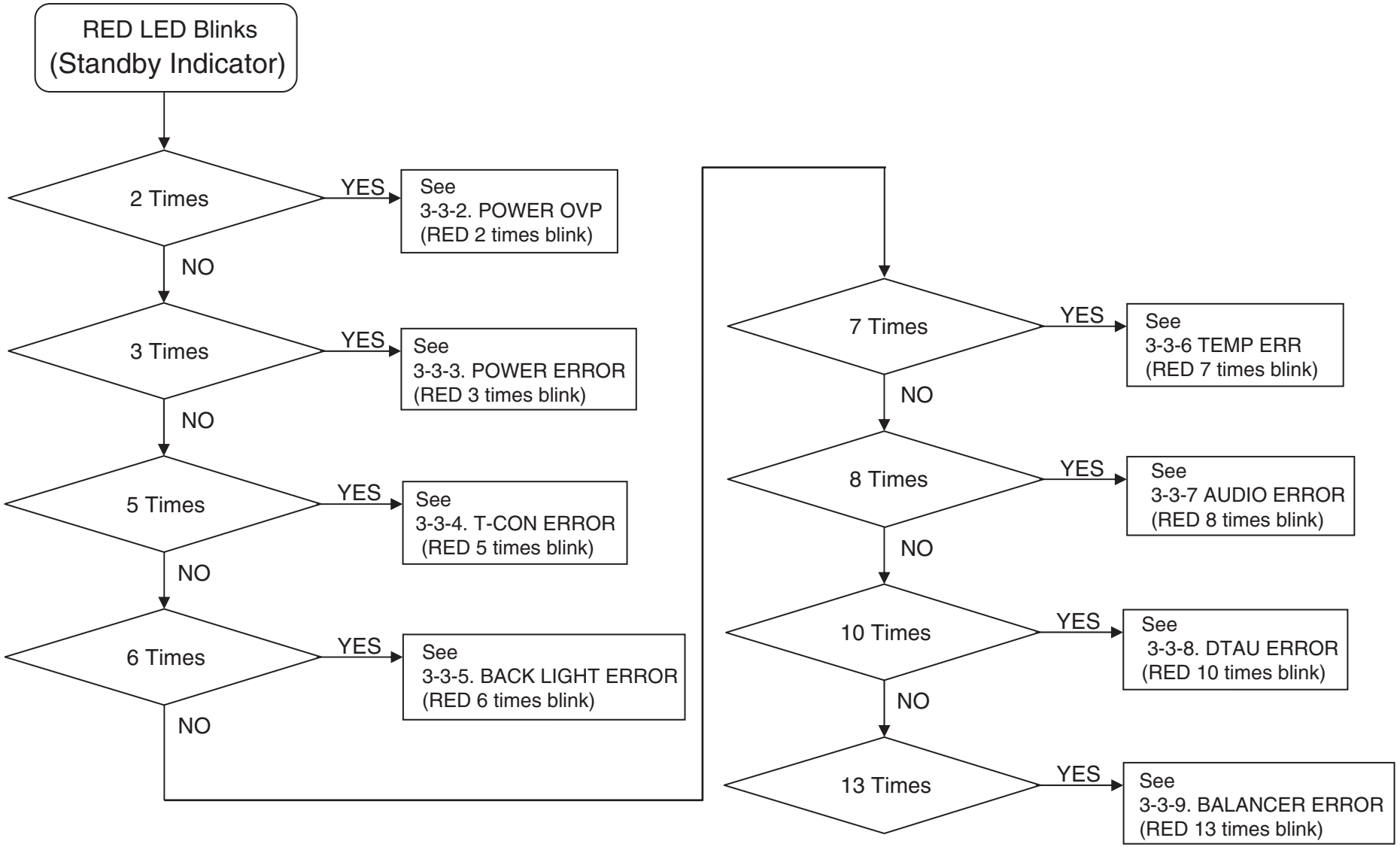
3-3. SELF DIAGNOSIS

Red LED Blink	Display (Self Diagnosis mode)	Contents
2	POW OVP	Main Power Over Voltage Protection
3	POW ERR1	Power Error
5	T_CON	T-CON Error
6	BACKLITE	Back Light Error (Panel Inverter)
7	TEMP ERR	Temperature Abnormal Detection
8	AUD PROT	Audio Abnormal Detection
9	FAN_ERR	FAN Error (Not Detected. Display Only)
10	DTT ERR	DTAU Power / Communication Error (AUS only)
13	BALANCER	Panel Balancer Error

When self diagnosis happens, STANDBY (RED) LED blinks and

the history can be seen on display by self diagnosis mode.

3-3-1. Flow Chart_C



3-3-2. POWER OVP (RED 2 Times blink)

This indicates OVP (Over Voltage Protection) of GF1(GF2) board.

12V line or 6.5Vline on GF1(GF2) board is over-voltage.

TV Micro (on AG board) pin139 detects OVP ERR and shuts down chassis power to Stand-by status.

TV Micro #139 Normal condition : Low / Error case : High

Replace GF1(GF2) board.

3-3-3. POWER ERROR (RED 3 Times blink)

This indicates POWER Error, Low B error of 12V from GF1(GF2) board. TV Micro (on AG board) pin150 detects POWER_ERR and shuts down chassis power to Stand-by status.

TV Micro #150 Normal condition : High / Error case : Low

- Check 12V at CN002 #1#2 on AG board. And F200 on AG has 12V or not
- Check GF1(GF2) board.

3-3-4. T-CON ERROR (RED 5 Times blink)

This indicates T-CON RDY signal error from timing controller of Panel module.

BE micro pin 128 on FB2 board detects it.

BE Micro #128 Normal condition : High / Error case : Low

Replace Panel module.

3-3-5. BACK LIGHT ERROR (RED 6 Times blink)

This indicates panel power circuit error such as inverter.
BE micro pin 78 on FB2 board detects it.

BE Micro #78 Normal condition : High / Error case : Low

Replace DF boards.

3-3-6. TEMP ERROR (RED 7 Times blink)

This indicates high temperature inside chassis. IC001 on AG Board Side is monitoring temperature. IC001 is controlled by BEM I2C.

When it happens;

- Check chassis environment

- Check around IC001 and replace AG if temperature monitoring circuit has problem

- Check panel

3-3-7. AUDIO ERROR (RED 8 Times blink)

This indicates Audio Error (Protection). It happens;

- IC8806 on AG board, Audio Amp detects over current, thermal shut down and/or low voltage of itself.

- DC voltage detected for speaker line.

Check above and replace AG board

3-3-8. DTAU ERROR (RED 10 Times blink)

This indicates DTAU Power error or Communication error.

[Power Error]

TV micro pin 165 on AG board detects it.

Check 12V and 6.5V via CN010 on AG board. (CN010 #1,#2 :12V,#5,#6 :6.5V)

Check harness connection CN010 on AG board and CON C1 on DTAU module.

Check above and replace DTAU board

[Communication Error]

TV micro on AG board and DTAU module communicate each other by UART.

Check harness connection CN011 on AG board and CON A1 on DTAU board.

Check above and replace DTAU board.

3-3-9. BALANCER ERROR (RED 13 Times blink)

This indicates Balancer board error of panel module.
BE micro pin 113 on FB2 board detects it.

BE Micro #113 Normal condition : Low / Error case : High

40” : Check harness connection CN6701 on DF1 board and CN126 on balancer board of panel module.

46” : Check harness connection CN6701 on DF2 board and CN138 on balancer board of panel module.

52” : Check harness connection CN6701 on DF4 board and CN324 on balancer board of panel module.

Replace Panel Module.

3-4. COMMUNICATION ERROR

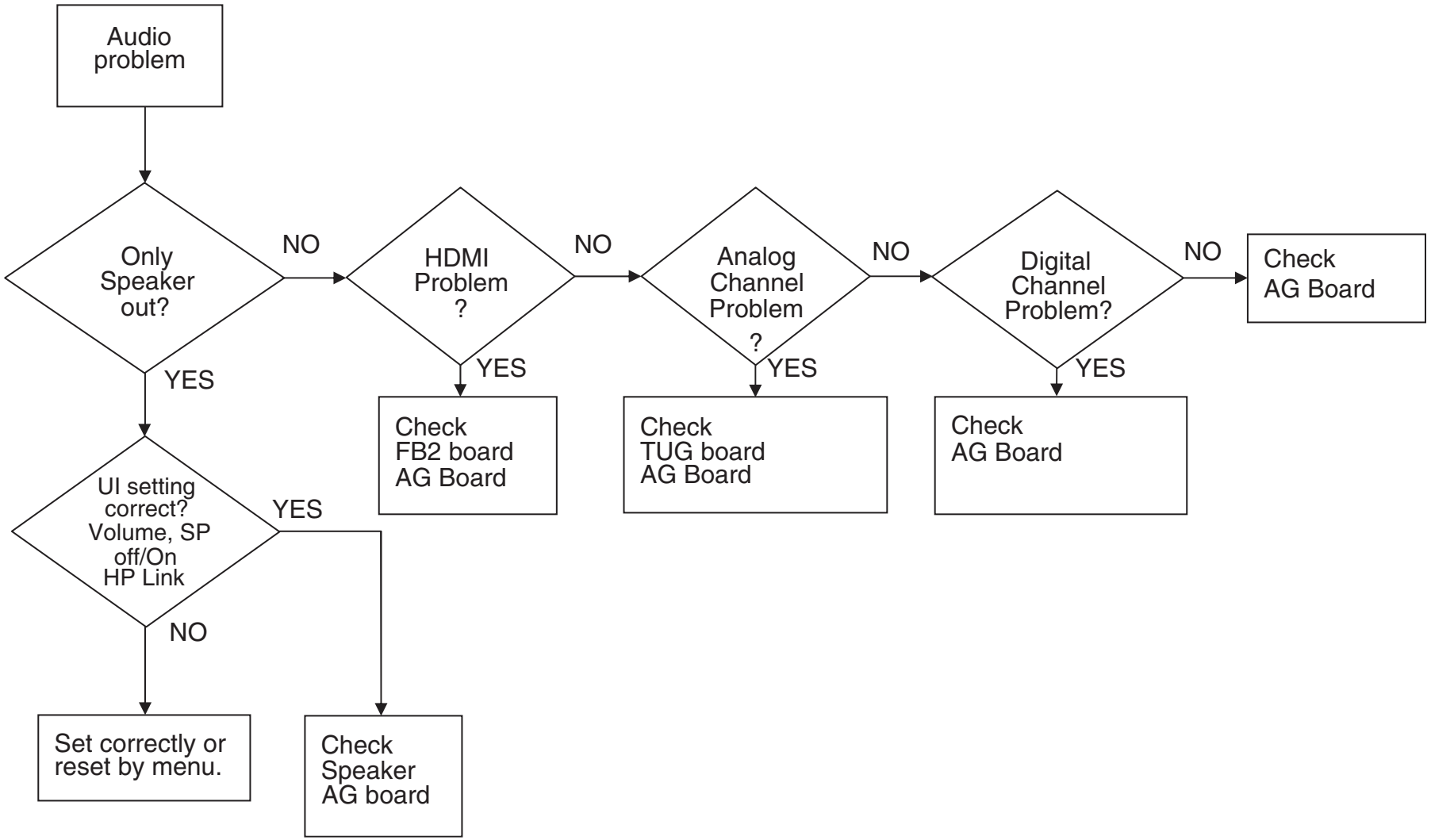
TV micro (on AG board) is communicating with EMMA2Lr (on FB2 board)

If EMMA has any problems, TVM retries to communicate and waits the response of EMMA. It will be timeout in about one minute, and TVM start power-up sequence w/o communicating with EMMA. Then, picture appears, but No OSD.

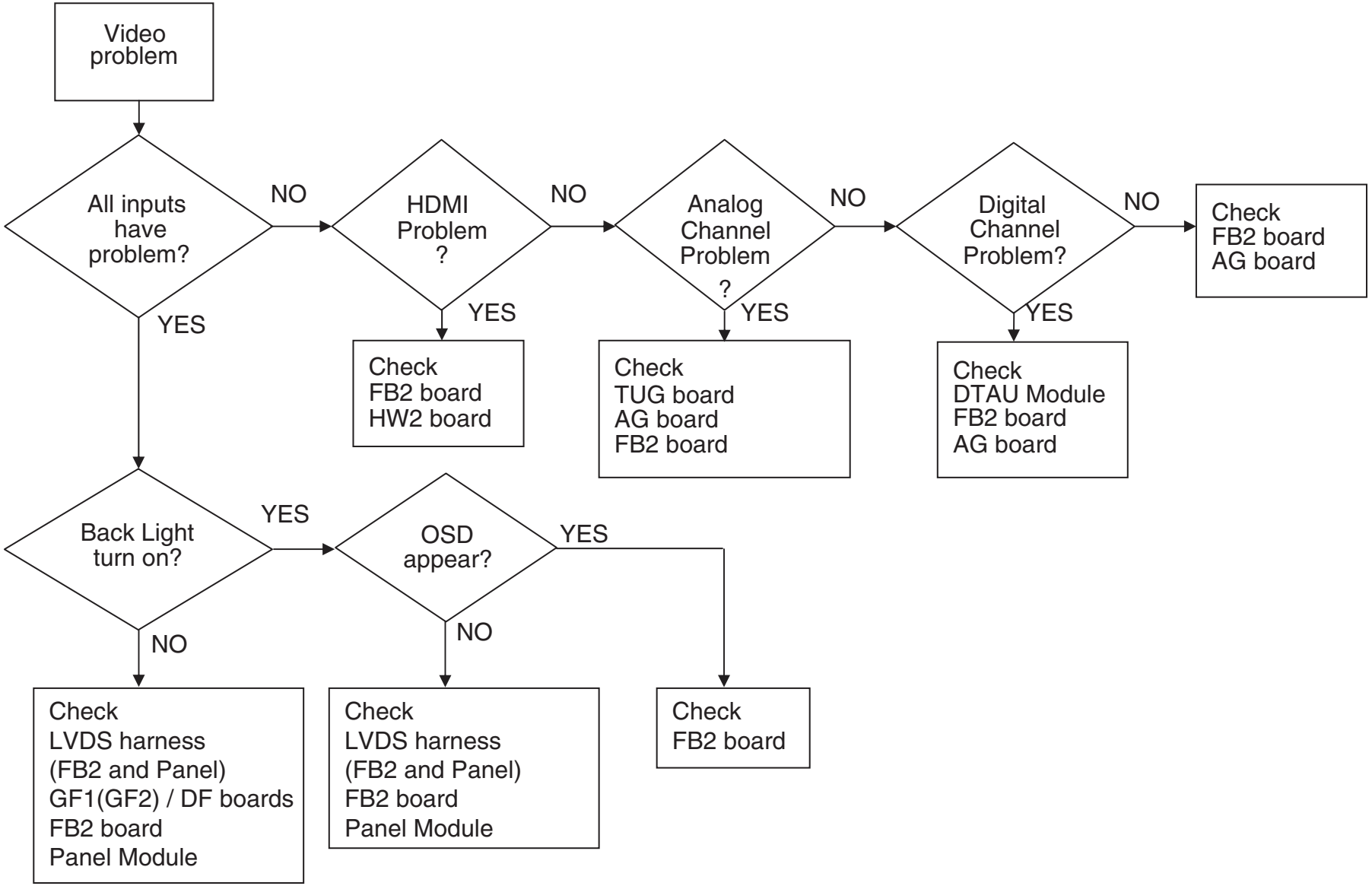
- FB2 board
  - PS3900, conduction.
- EMMA software upgrade error
  - Rewrite software of EMMA.

If it still NG, replace FB2 board.

3-5. AUDIO PROBLEM (Flow Chart_D)



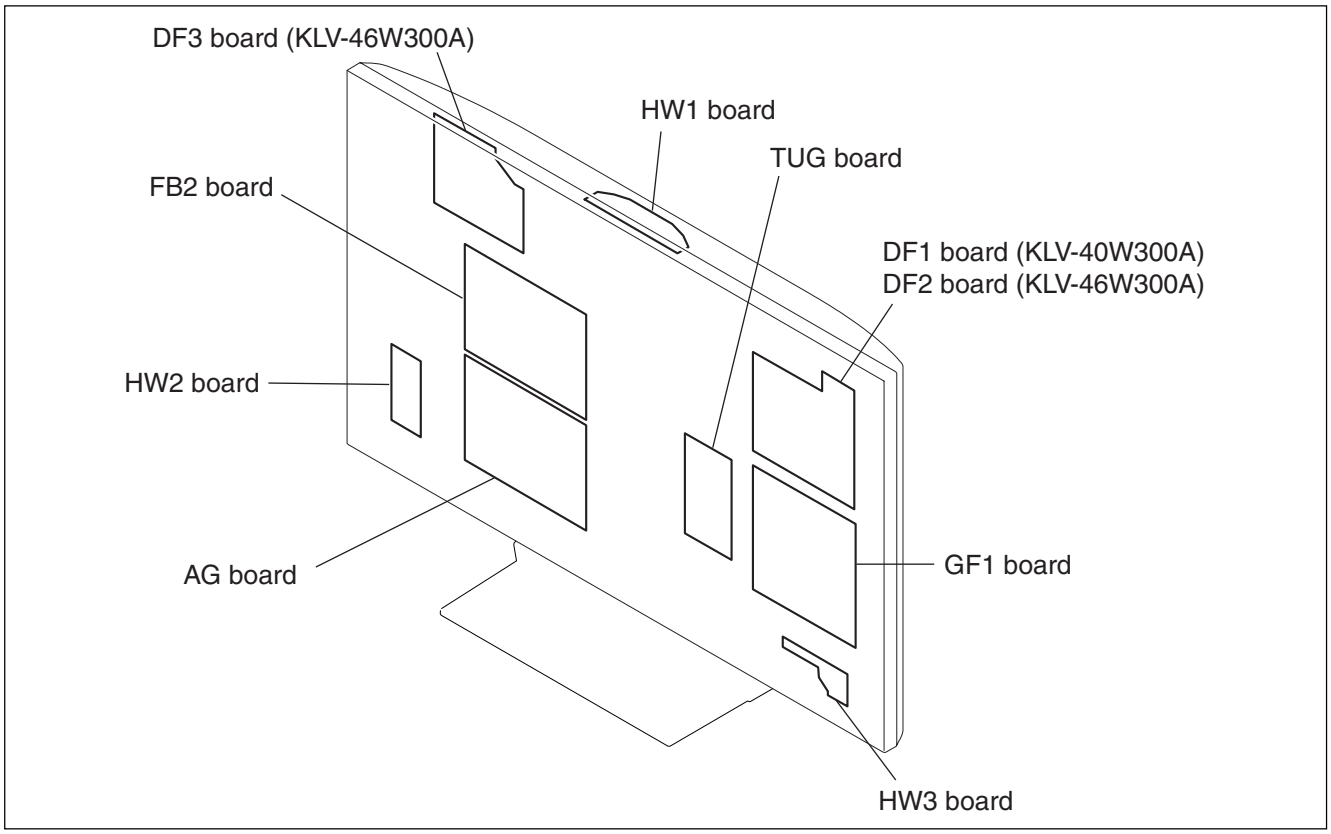
3-6. VIDEO PROBLEM (Flow Chart_E)



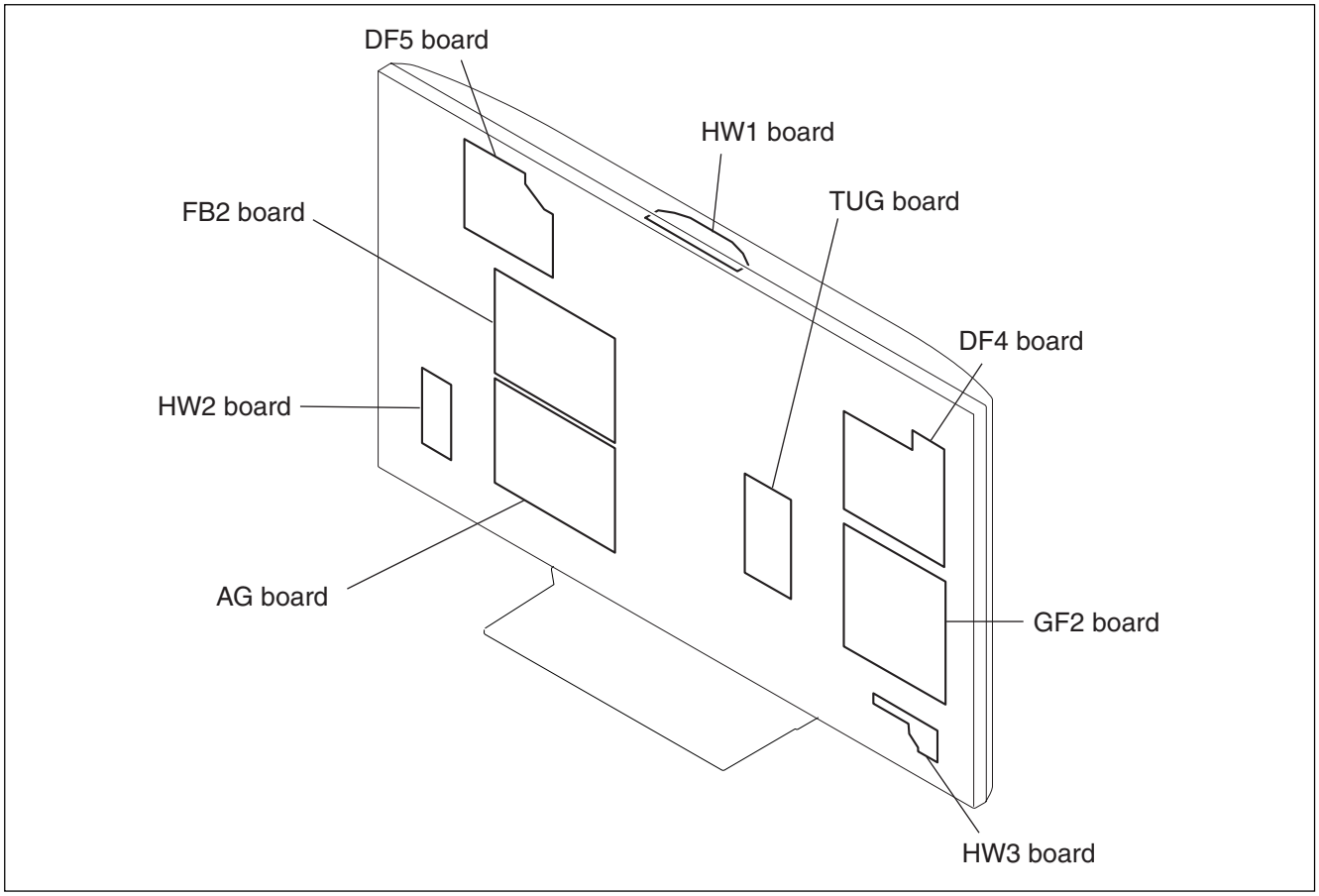
SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

(1) KLV-40/46W300A



(2) KLV-52W300A



SECTION 5
EXPLODED VIEWS

NOTE:

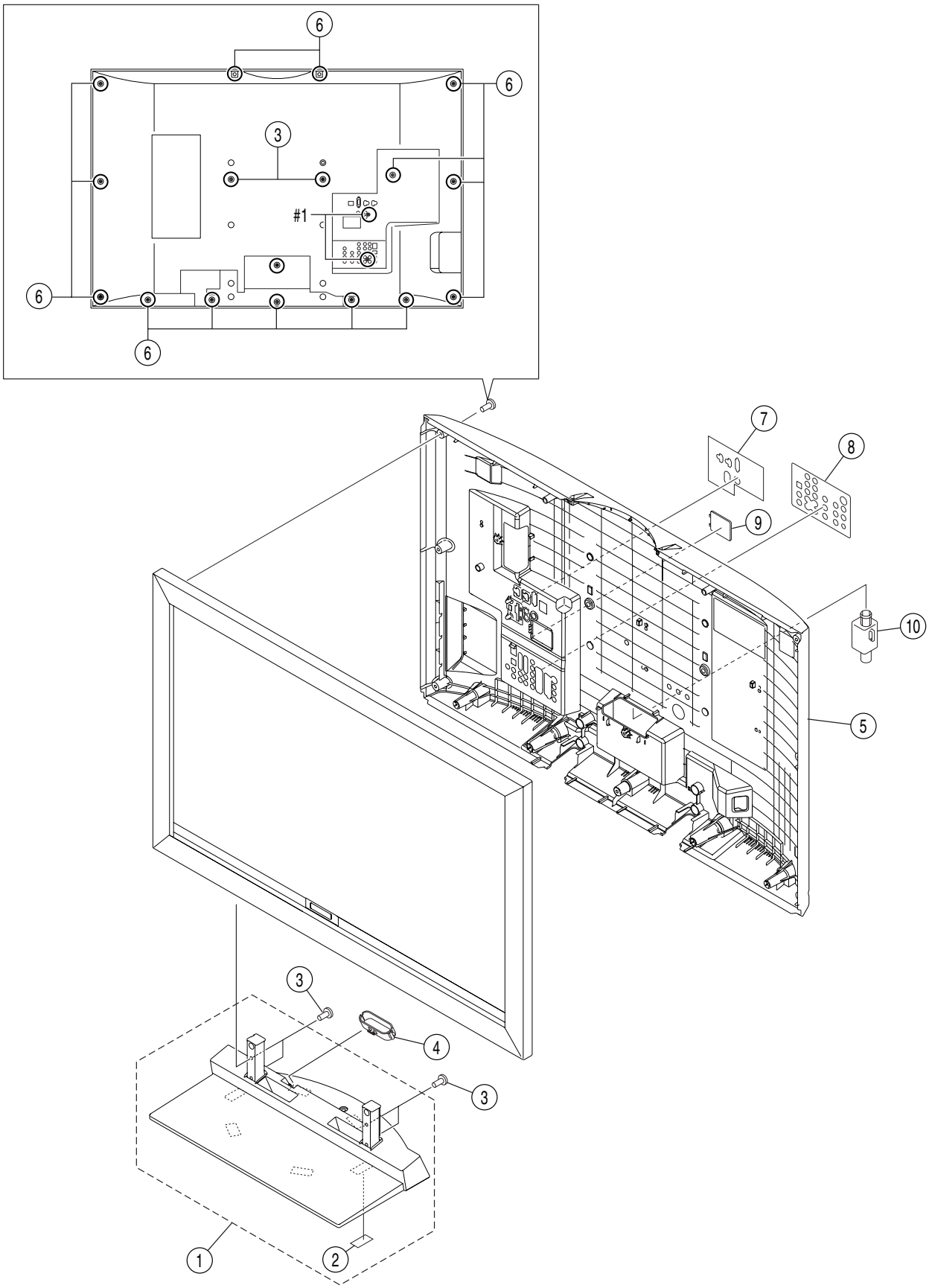
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The components identified by mark 🔒 contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

- Items with no part number and no description are not stocked because they are seldom required for roution service.
- The construction parts of an assembled part are indicated with a collation number in the remark colum.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

5-1. KLV-40W300A

5-1-1. REAR COVER ASSY AND STAND ASSY

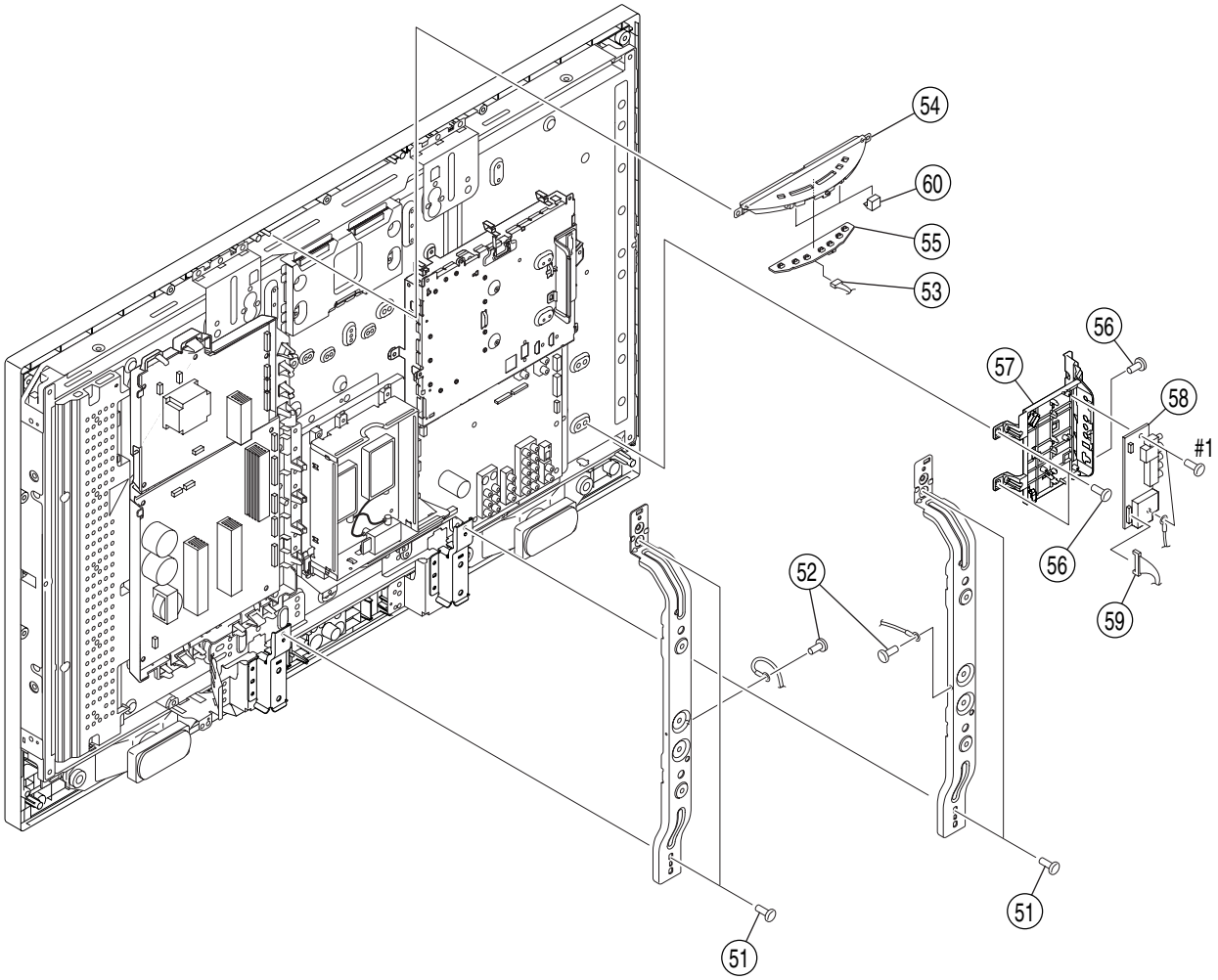


REF. No.	PART No.	DESCRIPTION	MARK
1	X-2179-151-1	STAND (ML) ASSY	2
2	3-094-362-01	FOOT (15X30)	
3	2-580-607-01	SCREW, +PSW M5X12	
4	2-595-155-02	CLAMP	
5	X-2186-579-1	REAR COVER ASSY (40)	

REF. No.	PART No.	DESCRIPTION	MARK
6	2-580-640-01	SCREW, +BVTP2 4X16	
7	3-274-400-01	LABEL, HDMI	
8	3-106-921-41	LABEL, REAR TERMINAL	
9	2-673-535-11	SERVICE COVER	
10	1-754-544-21	ANTENNA (FOR ISOLATION)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

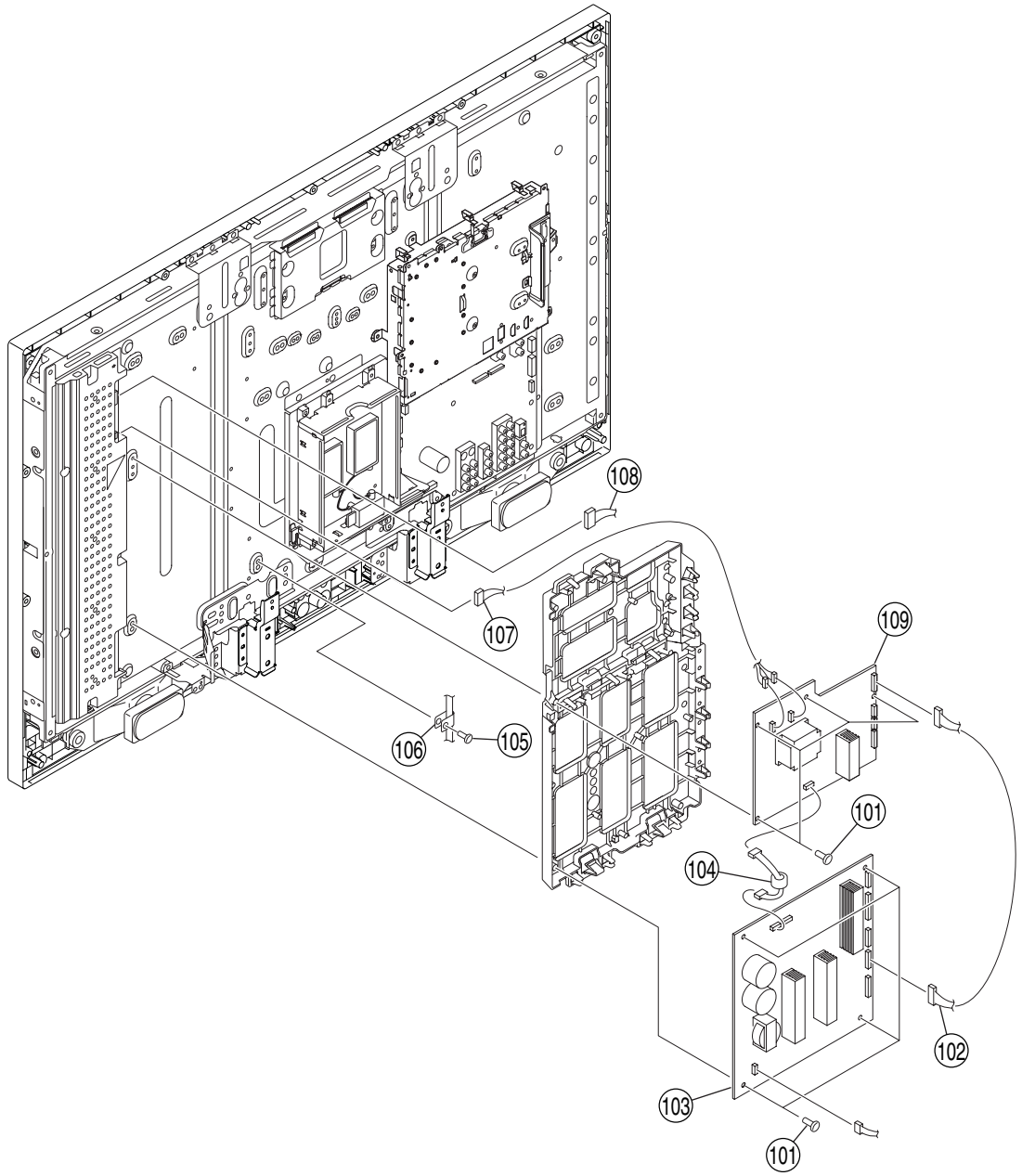
KLV-40W300A

5-1-2. ARM ASSY AND HW1 AND HW2 BOARDS



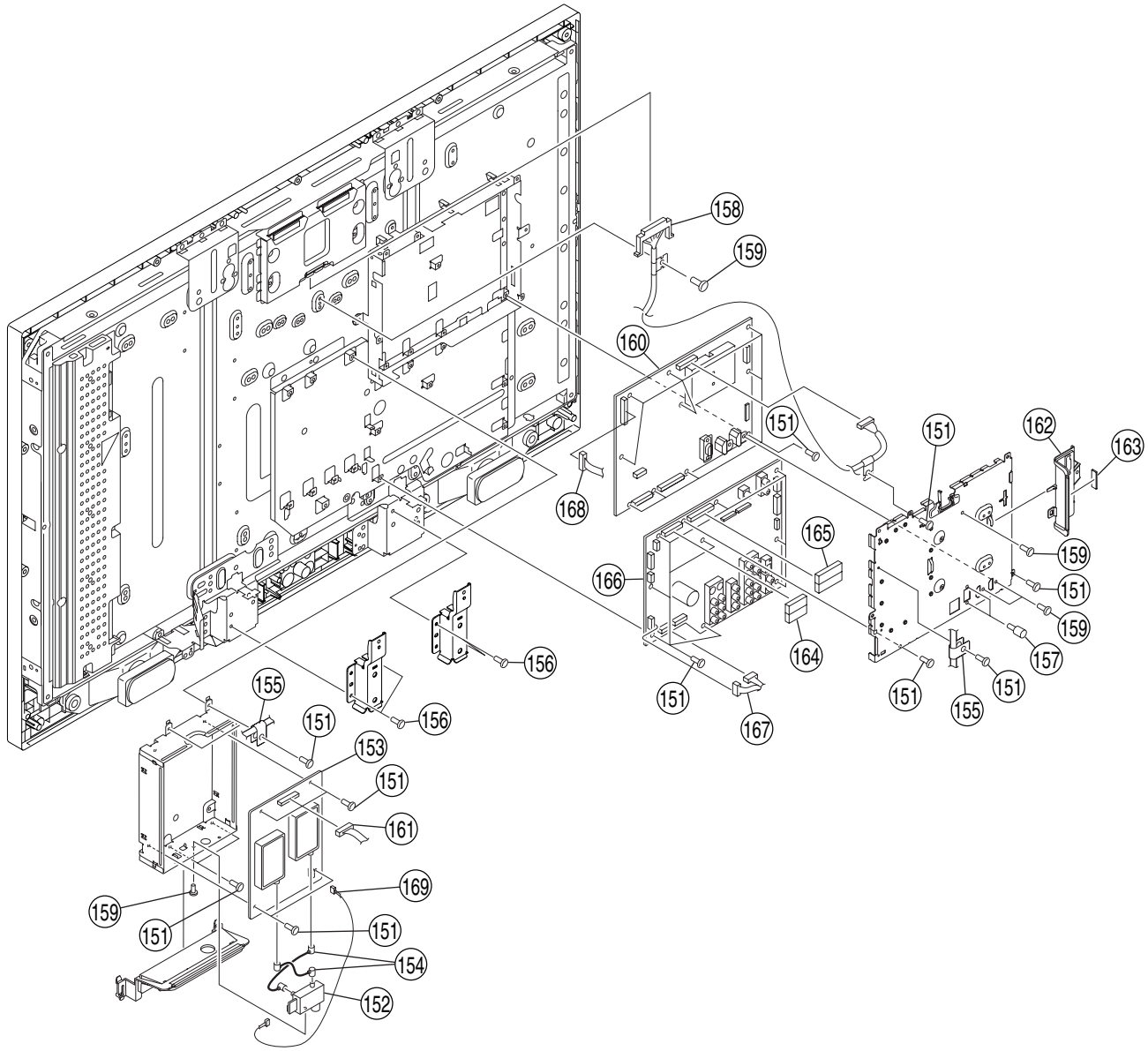
REF. No.		PART No.	DESCRIPTION	MARK
51		2-580-606-01	SCREW, +PSW M5X8	
52		2-580-629-01	SCREW, +BVST 3X8	
53		1-910-037-75	MO1929 CONNECTOR ASSY (H) 40P	
54		X-2178-763-1	BUTTON, MULTI ASSY	
55		A-1314-427-B	HW1 MOUNT	
56		2-580-591-01	SCREW, +PSW M3X5	
57		3-095-439-61	BRACKET, SIDE TERMINAL	
58		A-1361-956-A	HW2 COMPL	
59		1-834-140-11	LEAD WIRE WITH CONNECTOR (LVDS)	
60	*	3-269-273-11	SPACER, BUTTON	
#1		7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

KLV-40W300A
5-1-3. CHASSIS-1



REF. No.		PART No.	DESCRIPTION	MARK
101		2-674-965-51	SCREW, +PSW 3SG	
102		1-910-036-82	XA CONNECTOR ASSY (DF1) 9P	
103	⚠	A-1361-279-C	GF1 COMPL	
104		1-910-036-81	VH CONNECTOR ASSY (DF1) 3P	
105		2-580-629-01	SCREW, +BVST 3X8	
106		4-035-862-01	CLAMP, FG	
107		1-910-036-86	XA CONNECTOR ASSY (BL) 5P	
108		1-834-261-11	CONNECTOR ASSY	
109	⚠	A-1256-156-B	DF1 COMPL	

KLV-40W300A
5-1-4. CHASSIS-2



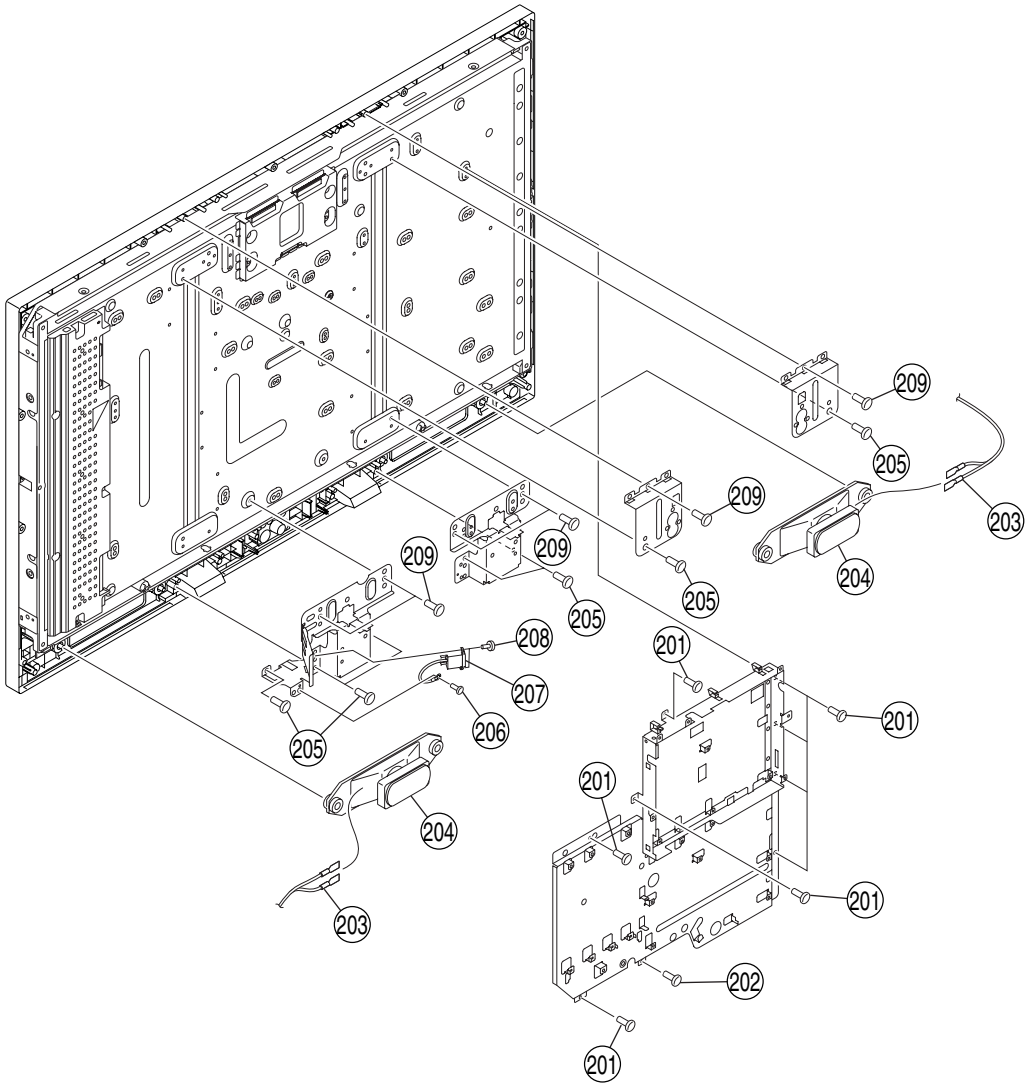
The components identified by mark 🔒 contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.	PART No.	DESCRIPTION	MARK
151	2-580-629-01	SCREW, +BVST 3X8	
152	1-251-658-41	SPLITTER RF	
153	A-1314-425-A	TUG MOUNT	
154	1-558-924-21	CABLE, PIN	
155	4-035-862-01	CLAMP, FG	
156	2-580-630-01	SCREW, +BVST 4X8	
157	4-635-966-01	SCREW (HEX)	
158	1-834-308-11	LEAD WIRE WITH CONNECTOR (LVDS)	
159	2-580-591-01	SCREW, +PSW M3X5	
160	🔒 A-1362-570-A	FB2 COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
161	1-910-037-69	SHLDP CONNECTOR ASSY 20P	
162	3-106-942-41	BRACKET, CARD	
163	2-689-737-01	COVER, MS	
164	1-821-376-11	BOARD TO BOARD CONNECTOR 50P	
165	1-821-375-11	BOARD TO BOARD CONNECTOR 80P	
166	A-1314-443-A	AG COMPL	
167	1-910-036-80	XA CONNECTOR ASSY (A)	
168	1-910-039-83	XA CONNECTOR ASSY (FB) 13P	
169	1-910-029-20	EH CONNECTOR ASSY 2P	

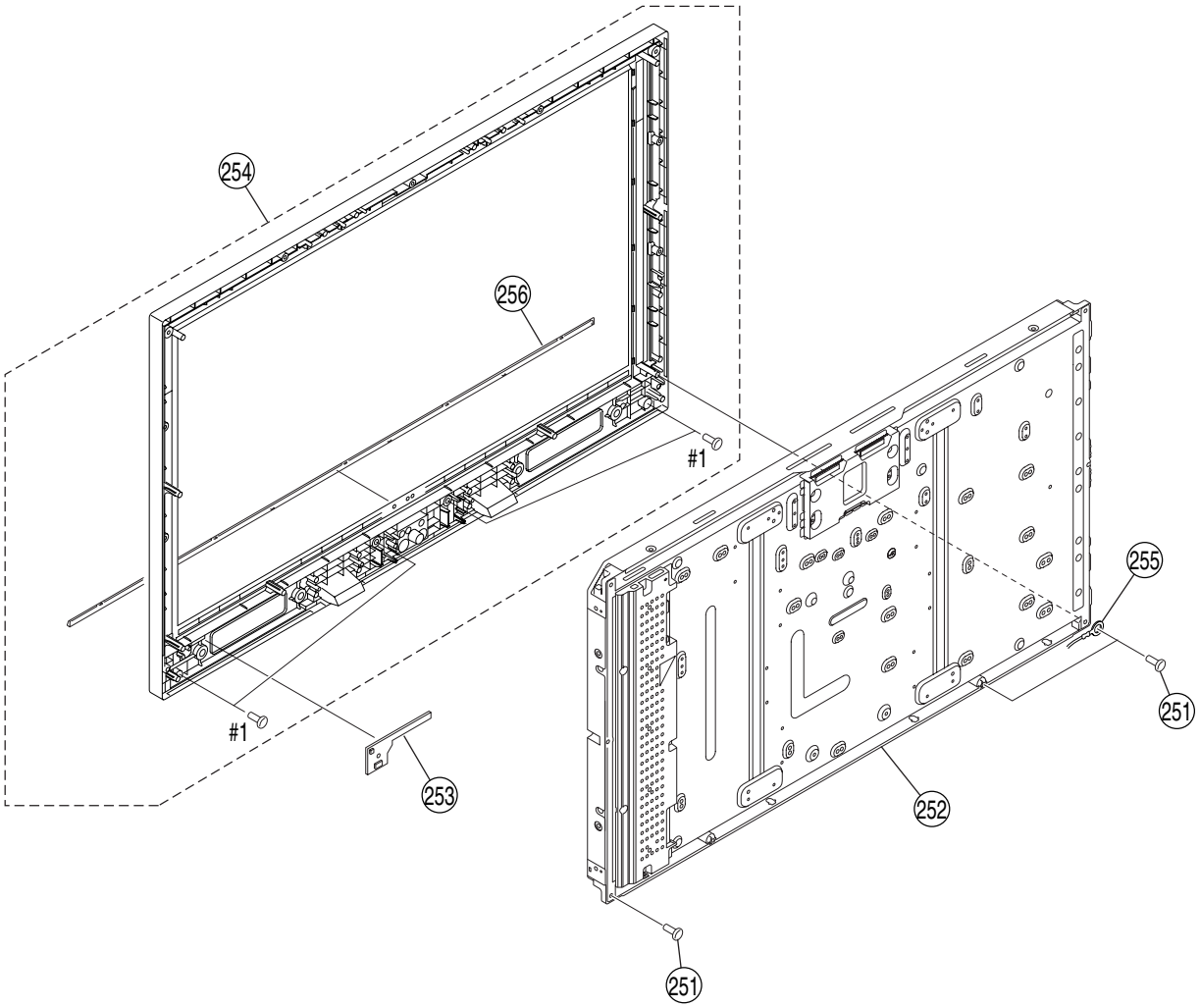
KLV-40W300A

5-1-5. CHASSIS BRACKET ASSY AND SPEAKER



REF. No.	PART No.	DESCRIPTION	MARK
201	2-580-591-01	SCREW, +PSW M3X5	
202	2-580-630-01	SCREW, +BVST 4X8	
203	1-910-036-83	VH CONNECTOR ASSY (SP) 4P	
204	1-826-699-11	LOUDSPEAKER (4.2X15CM)	
205	2-580-640-01	SCREW, +BVTP2 4X16	
206	2-580-599-01	SCREW, +PSW M4X6	
207	⚠ 1-819-729-14	INLET, AC (WITH NOISE FILTER)	
208	2-596-649-01	+KTT 3X10 (S TYPE)	
209	2-580-606-01	SCREW, +PSW M5X8	

KLV-40W300A
5-1-6. BEZEL ASSY AND LCD PANEL

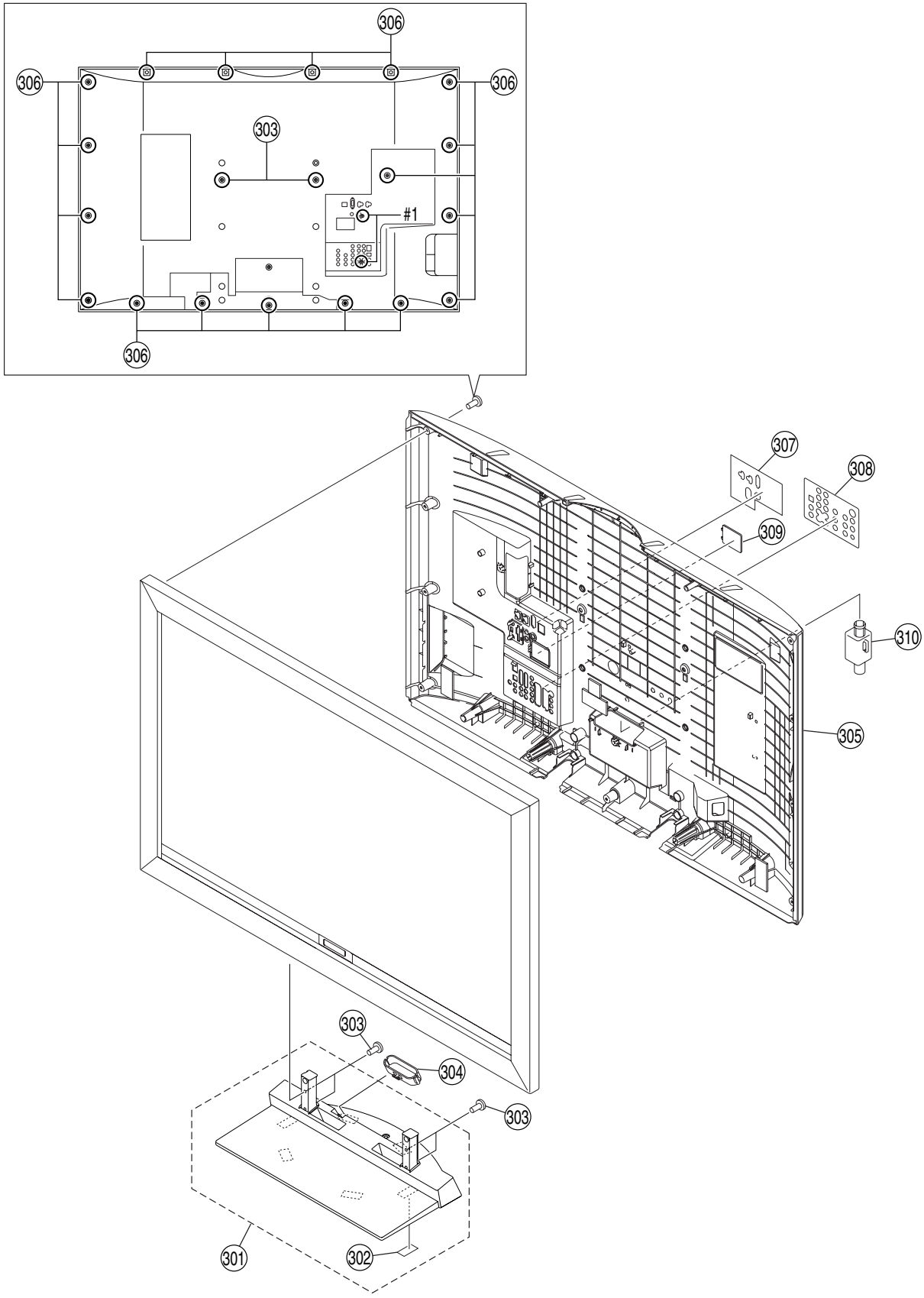


REF. No.		PART No.	DESCRIPTION	MARK
251		2-580-640-01	SCREW, +BVTP2 4X16	
252	⚠	1-802-488-13	LCD PANEL (40INCH FHD TFT)	
253		A-1314-430-B	HW3 MOUNT	
254		X-2179-463-1	BEZEL ASSY (40)	256
255	*	1-910-039-50	FASTEN CONNECTOR ASSY (HW2)	

REF. No.	PART No.	DESCRIPTION	MARK
256	3-095-419-31	ORNAMENT (40)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

5-2. KLV-46W300A

5-2-1. REAR COVER ASSY AND STAND ASSY

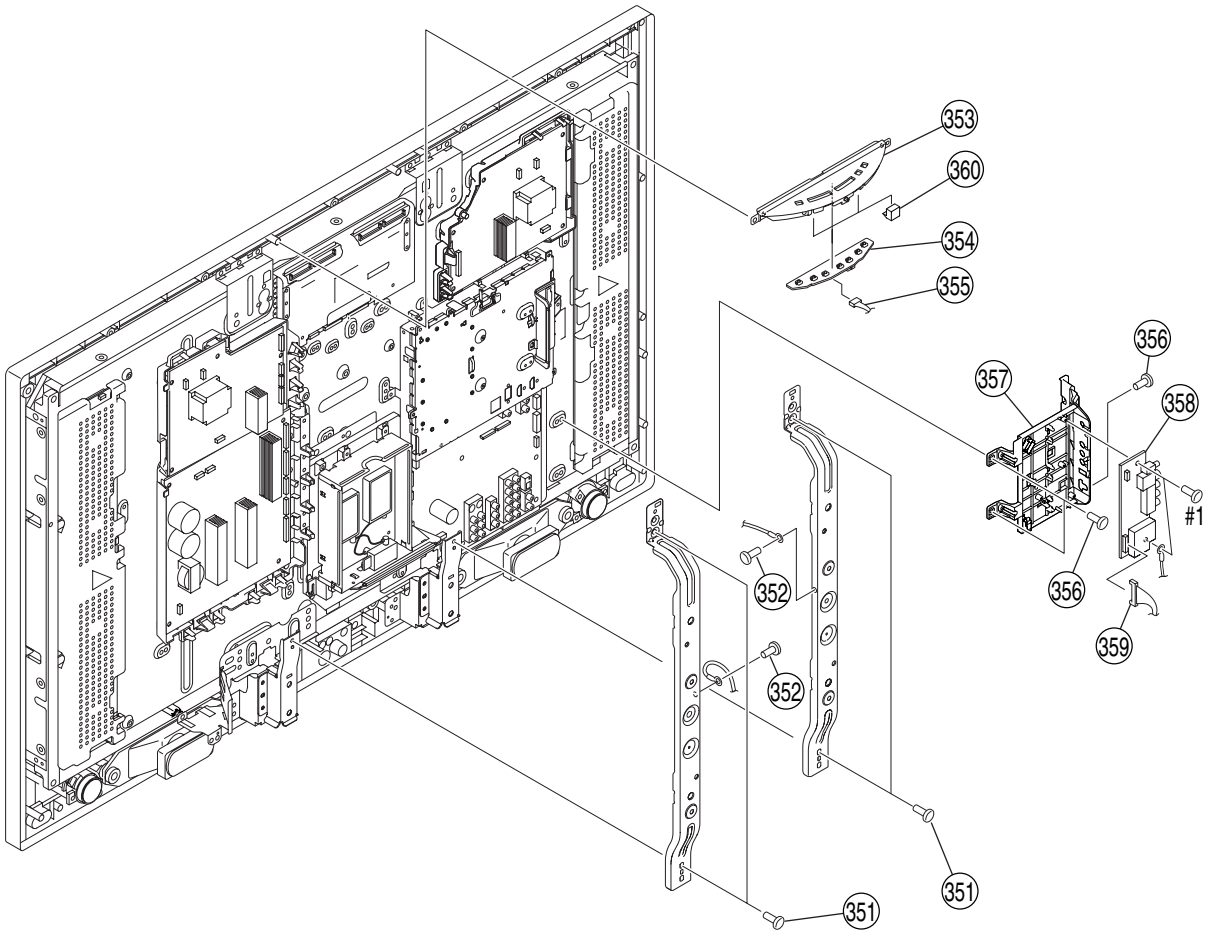


REF. No.	PART No.	DESCRIPTION	MARK
301	X-2179-152-2	STAND (L) ASSY	302
302	3-094-362-01	FOOT (15X30)	
303	2-580-607-01	SCREW, +PSW M5X12	
304	2-595-155-02	CLAMP	
305	X-2179-461-1	REAR COVER ASSY (46)	

REF. No.	PART No.	DESCRIPTION	MARK
306	2-580-640-01	SCREW, +BVTP2 4X16	
307	3-274-400-01	LABEL, HDMI	
308	3-106-921-41	LABEL, REAR TERMINAL	
309	2-673-535-11	SERVICE COVER	
310	1-754-544-21	ANTENNA (FOR ISOLATION)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

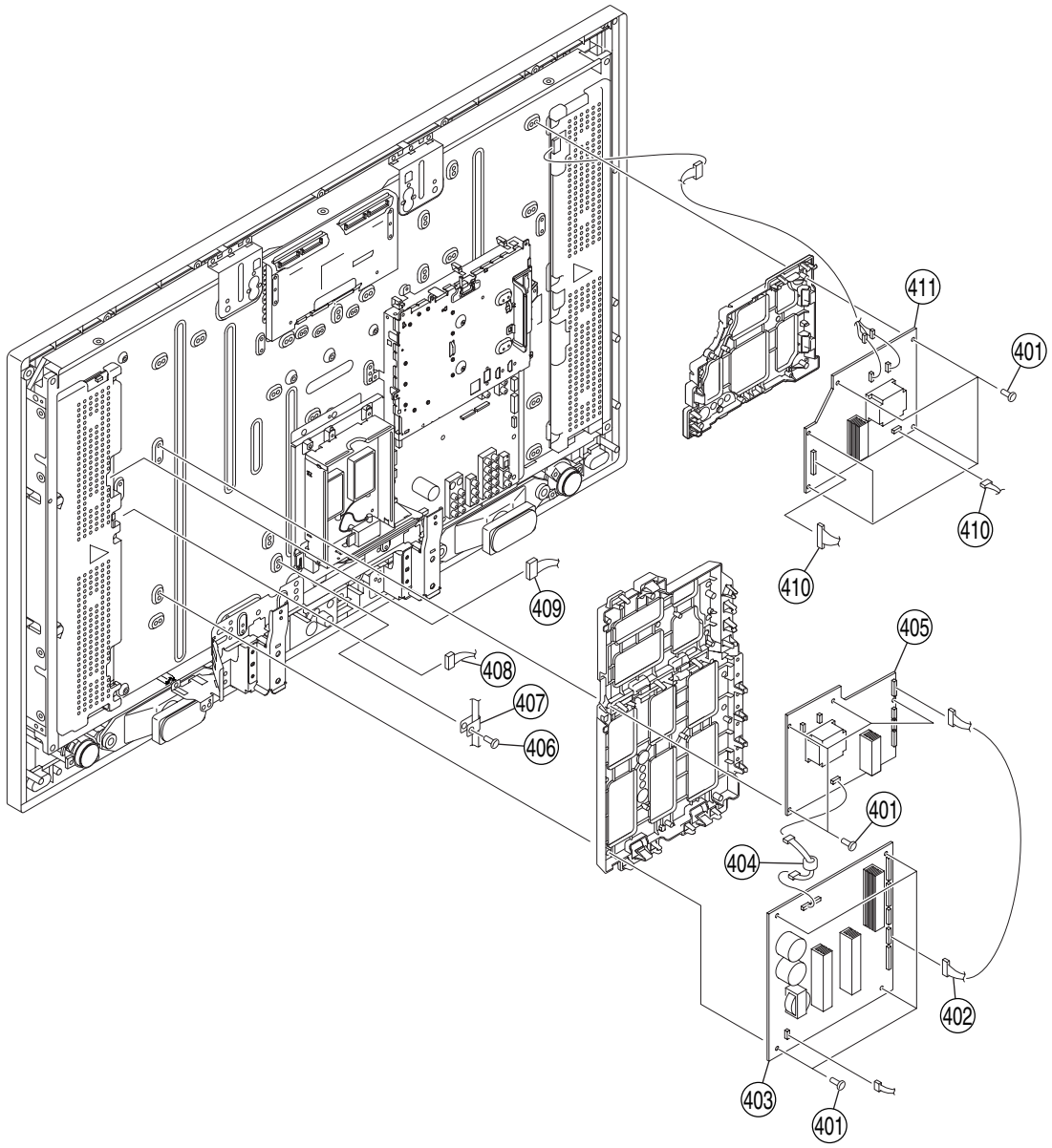
KLV-46W300A

5-2-2. ARM ASSY AND HW1 AND HW2 BOARDS



REF. No.		PART No.	DESCRIPTION	MARK
351		2-580-606-01	SCREW, +PSW M5X8	
352		2-580-629-01	SCREW, +BVST 3X8	
353		X-2178-763-1	BUTTON, MULTI ASSY	
354		A-1314-427-B	HW1 MOUNT	
355		1-910-037-76	MO1929 CONNECTOR ASSY (H) 40P	
356		2-580-591-01	SCREW, +PSW M3X5	
357		3-095-439-61	BRACKET, SIDE TERMINAL	
358		A-1361-956-A	HW2 MOUNT	
359		1-834-140-11	LEAD WIRE WITH CONNECTOR (LVDS)	
360	*	3-269-273-11	SPACER, BUTTON	
#1		7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

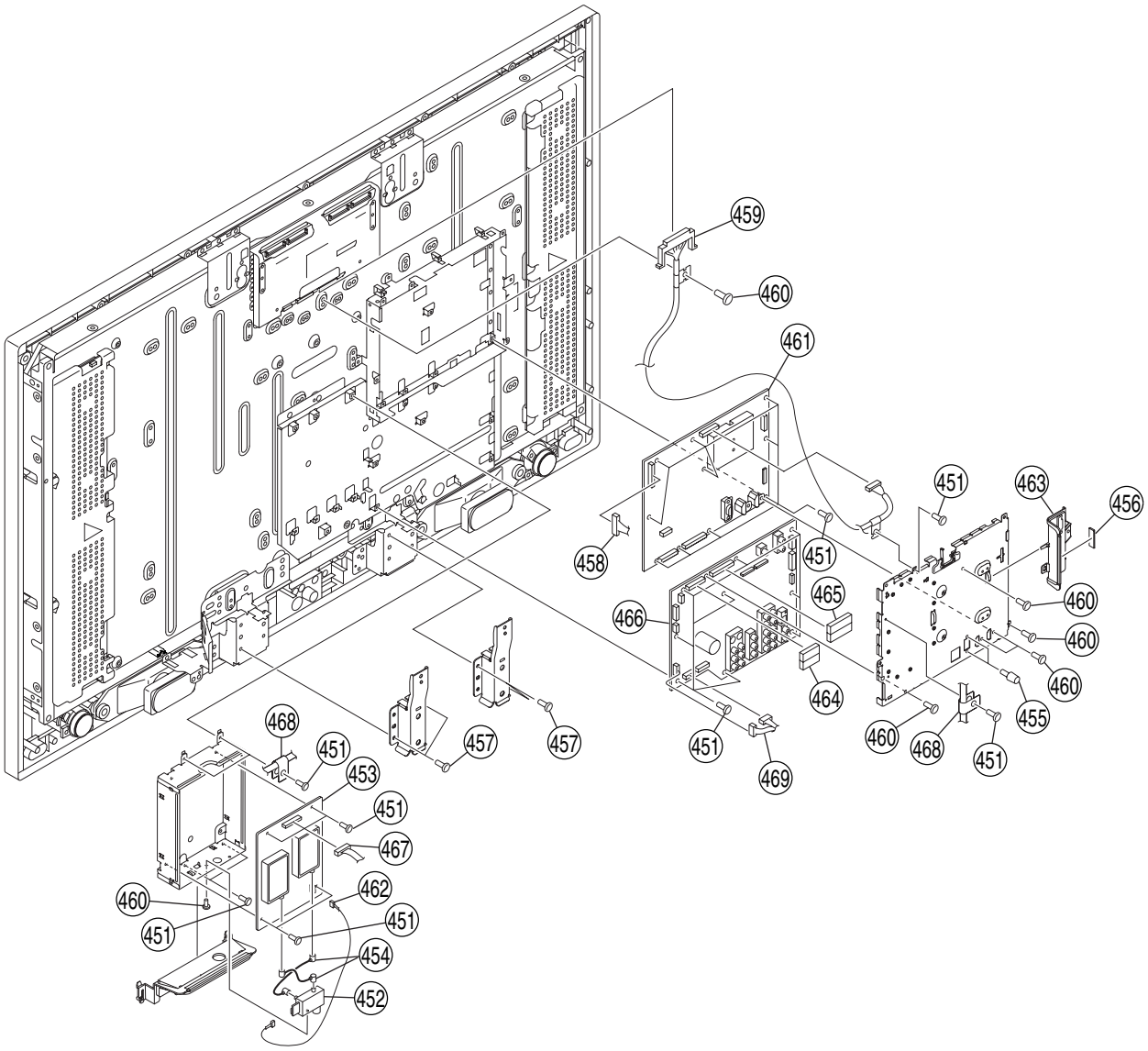
5-2-3. CHASSIS-1



REF. No.		PART No.	DESCRIPTION	MARK
401		2-674-965-51	SCREW, +PSW 3SG	
402		1-910-036-82	XA CONNECTOR ASSY (DF1) 9P	
403	⚠	A-1361-279-C	GF1 COMPL	
404		1-910-036-81	VH CONNECTOR ASSY (DF1) 3P	
405	⚠	A-1253-585-B	DF2 MOUNT	

REF. No.		PART No.	DESCRIPTION	MARK
406		2-580-629-01	SCREW, +BVST 3X8	
407		4-035-862-01	CLAMP, FG	
408		1-910-036-92	XA CONNECTOR ASSY (BL) 7P	
409		1-834-263-11	CONNECTOR ASSY	
410		1-910-036-91	CONNECTOR ASSY (DF3)	
411	⚠	A-1253-586-B	DF3 MOUNT	

5-2-4. CHASSIS-2

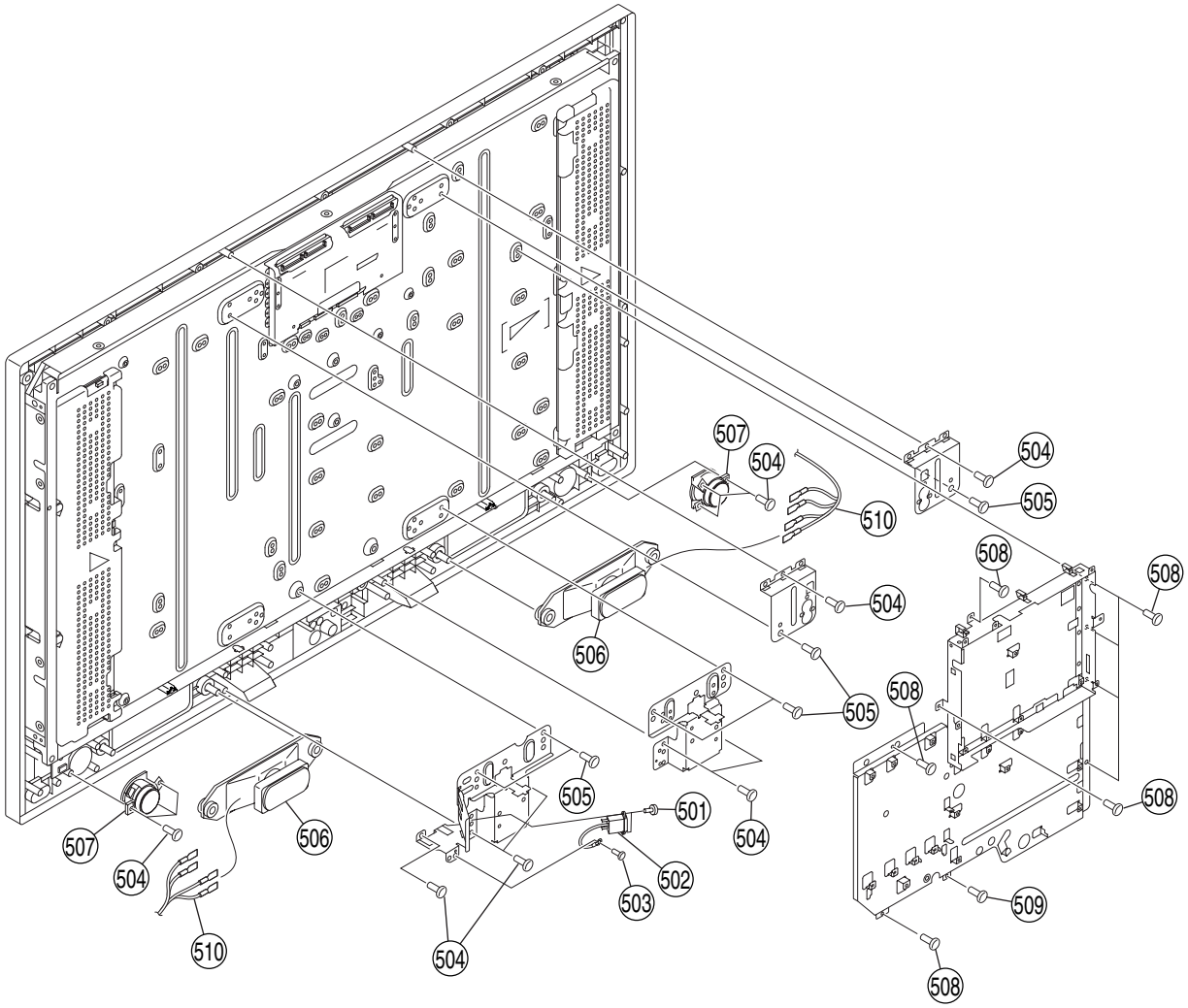


The components identified by mark 🔒 contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.		PART No.	DESCRIPTION	MARK
451		2-580-629-01	SCREW, +BVST 3X8	
452		1-251-658-41	SPLITTER RF	
453		A-1314-425-A	TUG MOUNT	
454		1-558-924-21	CABLE, PIN	
455		4-635-966-01	SCREW (HEX)	
456		2-689-737-01	COVER, MS	
457		2-580-630-01	SCREW, +BVST 4X8	
458	*	1-910-039-83	XA CONNECTOR ASSY (FB) 13P	
459		1-834-308-11	LEAD WIRE WITH CONNECTOR (LVDS)	
460		2-580-591-01	SCREW, +PSW M3X5	

REF. No.		PART No.	DESCRIPTION	MARK
461	🔒	A-1362-570-A	FB2 COMPL	
462		1-910-029-20	EH CONNECTOR ASSY 2P	
463		3-106-942-41	BRACKET, CARD	
464		1-821-376-11	BOARD TO BOARD CONNECTOR 50P	
465		1-821-375-11	BOARD TO BOARD CONNECTOR 80P	
466		A-1314-443-A	AG COMPL	
467		1-910-037-69	SHLDP CONNECTOR ASSY 20P	
468		4-035-862-01	CLAMP, FG	
469		1-910-040-25	XA CONNECTOR ASSY (A)	

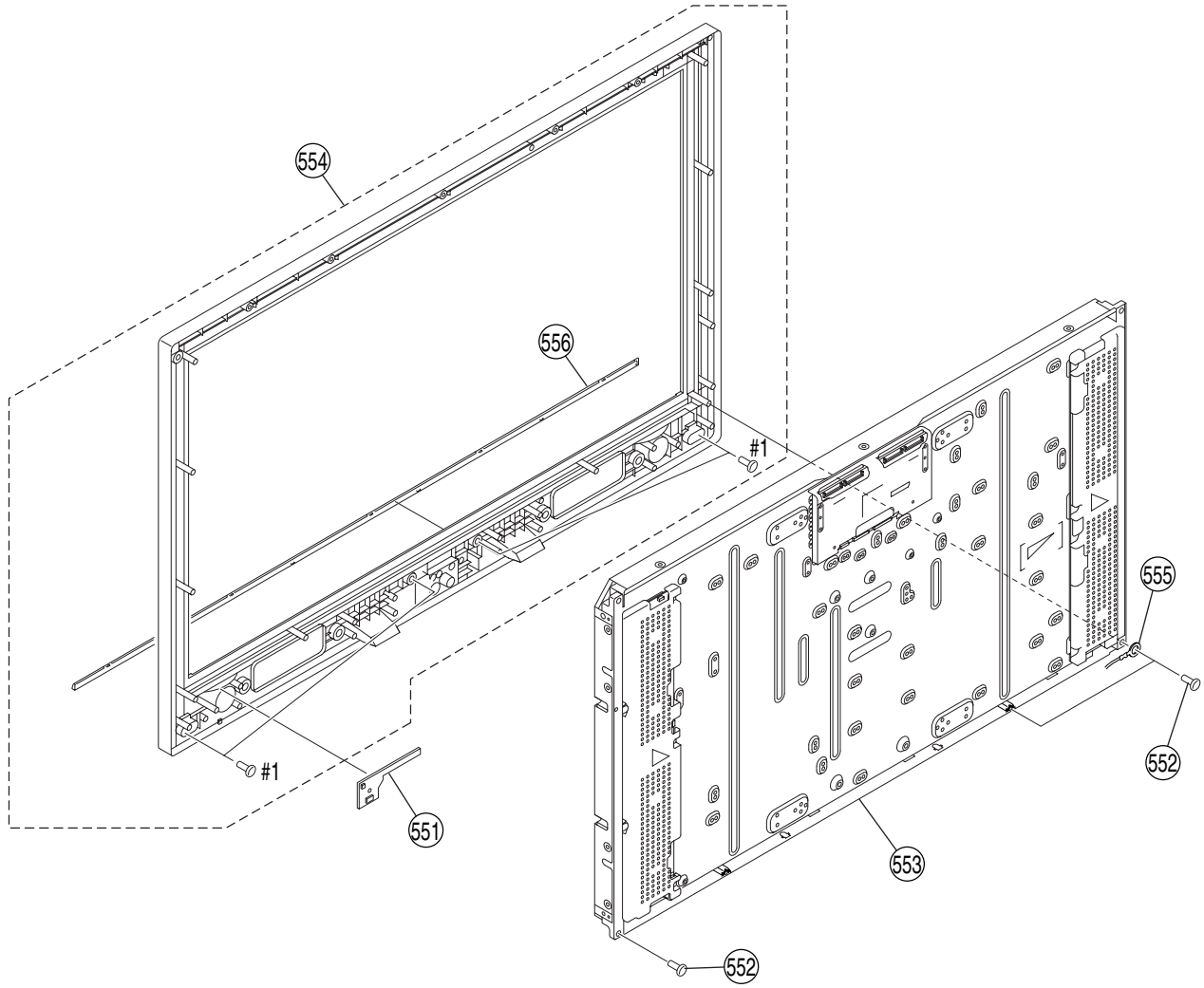
5-2-5. CHASSIS BRACKET ASSY AND SPEAKER



REF. No.	PART No.	DESCRIPTION	MARK
501	2-596-649-01	+KTT 3X10 (S TYPE)	
502	⚠ 1-821-380-11	INLET, AC (WITH NOISE FILTER)	
503	2-580-599-01	SCREW, +PSW M4X6	
504	2-580-640-01	SCREW, +BVTP2 4X16	
505	2-580-606-01	SCREW, +PSW M5X8	

REF. No.	PART No.	DESCRIPTION	MARK
506	1-826-698-11	LOUD SPEAKER (5.5X15.5CM)	
507	1-826-695-11	LOUDSPEAKER (40MM TWEETER)	
508	2-580-591-01	SCREW, +PSW M3X5	
509	2-580-630-01	SCREW, +BVST 4X8	
510	1-910-036-88	VH CONNECTOR ASSY (SP) 4P	

5-2-6. BEZEL ASSY AND LCD PANEL

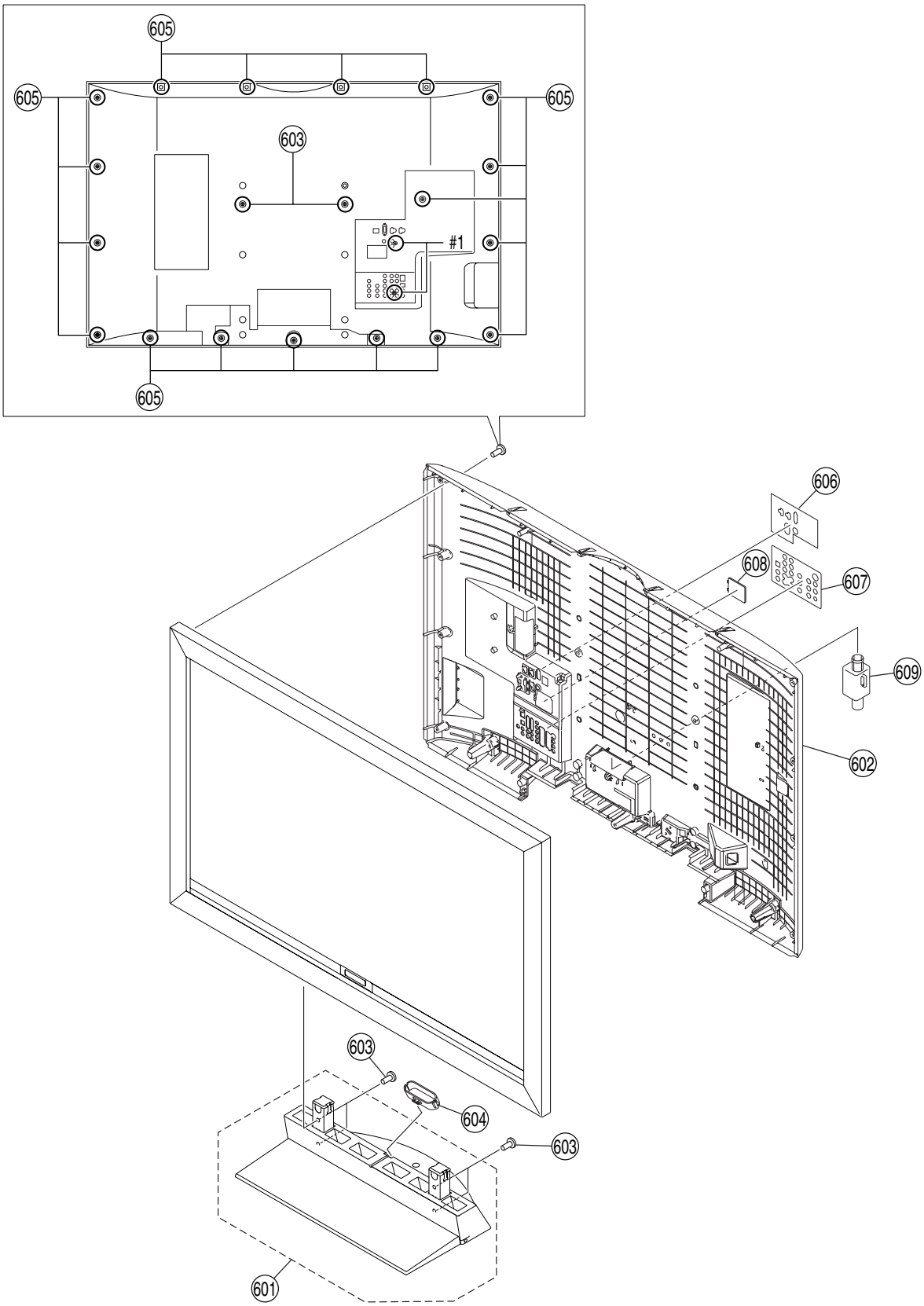


REF. No.		PART No.	DESCRIPTION	MARK
551		A-1314-430-B	HW3 MOUNT	
552		2-580-640-01	SCREW, +BVTP2 4X16	
553	⚠	1-802-486-12	LCD PANEL (46INCH FHD TFT)	
554		X-2179-464-1	BEZEL ASSY (46)	556
555	*	1-910-039-50	FASTEN CONNECTOR ASSY (HW2)	

REF. No.	PART No.	DESCRIPTION	MARK
556	3-095-424-31	ORNAMENT (46)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

5-3. KLV-52W300A

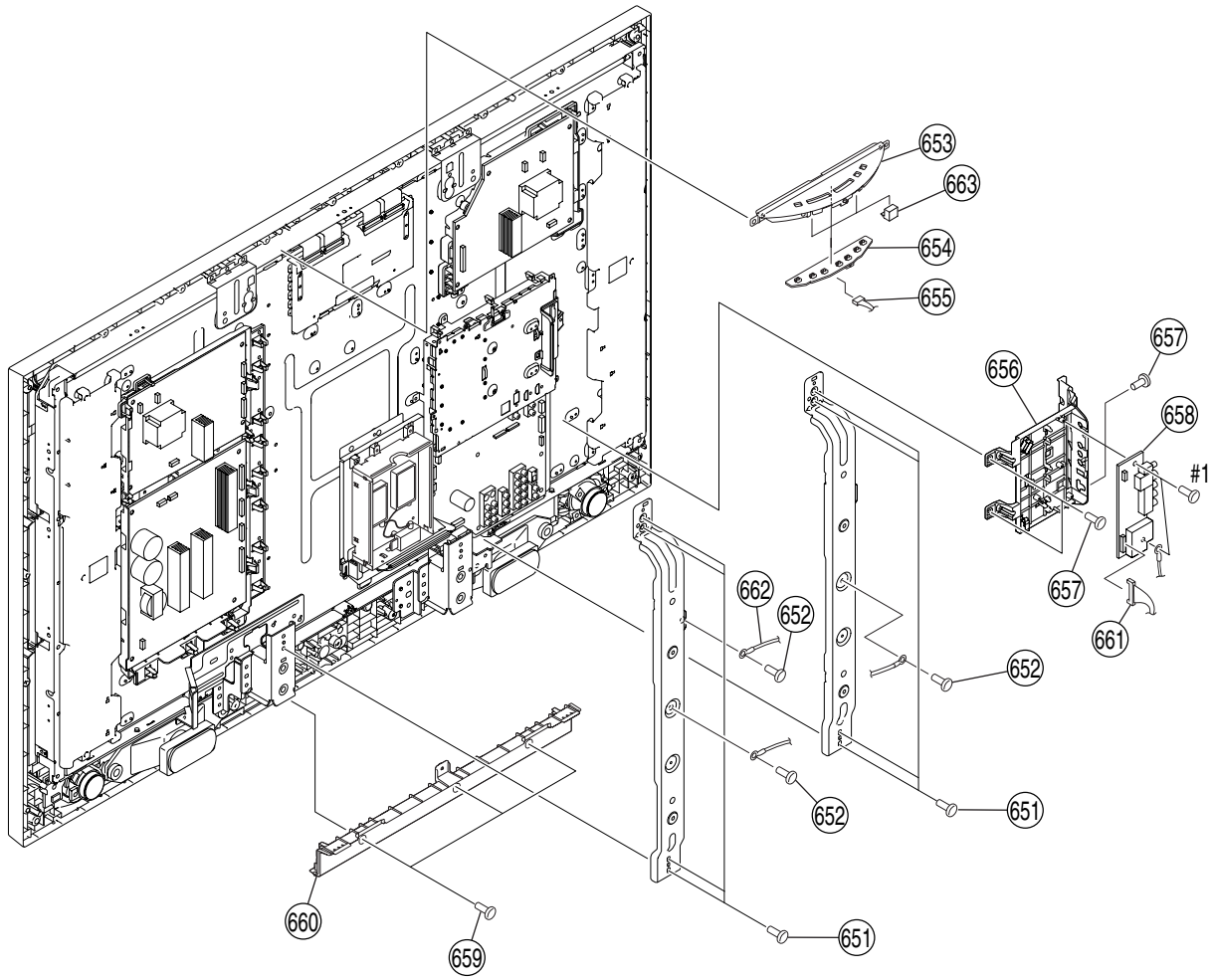
5-3-1. REAR COVER ASSY AND STAND ASSY



REF. No.	PART No.	DESCRIPTION	MARK
601	X-2177-865-1	STAND (LL) ASSY	
602	X-2177-856-2	REAR COVER ASSY (52)	
603	2-580-607-01	SCREW, +PSW M5X12	
604	2-595-155-02	CLAMP	
605	2-580-640-01	SCREW, +BVTP2 4X16	

REF. No.	PART No.	DESCRIPTION	MARK
606	3-274-400-01	LABEL, HDMI	
607	3-106-921-41	LABEL, REAR TERMINAL	
608	2-673-535-11	SERVICE COVER	
609	1-754-544-21	ANTENNA (FOR ISOLATION)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

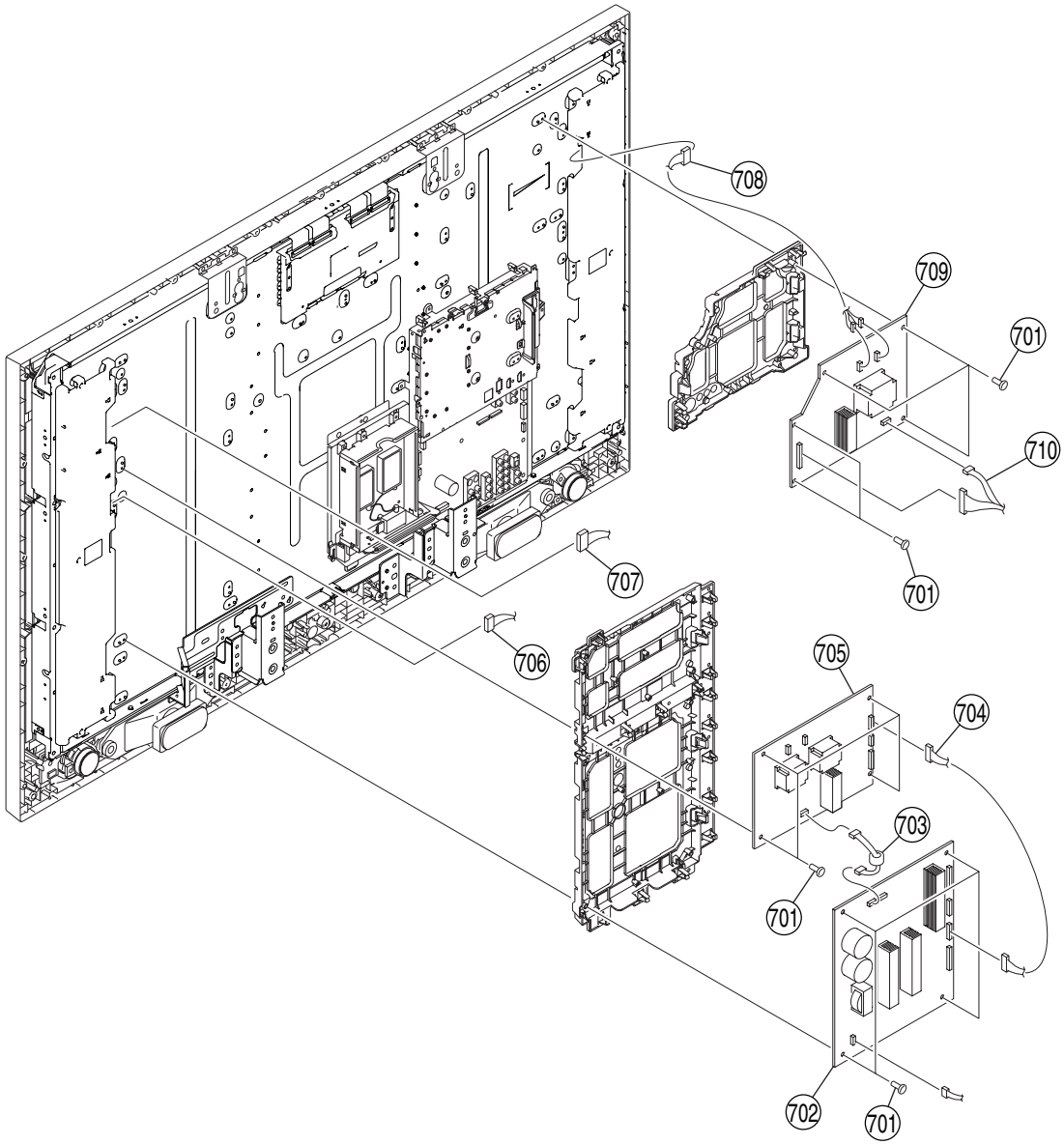
5-3-2. ARM ASSY AND HW1 AND HW2 BOARDS



REF. No.		PART No.	DESCRIPTION	MARK
651		2-580-606-01	SCREW, +PSW M5X8	
652		2-580-591-01	SCREW, +PSW M3X5	
653		X-2178-763-1	BUTTON, MULTI ASSY	
654		A-1314-427-B	HW1 MOUNT	
655		1-910-037-77	MO1929 CONNECTOR ASSY (H) 40P	
656		3-095-439-61	BRACKET, SIDE TERMINAL	
657		2-580-591-01	SCREW, +PSW M3X5	
658		A-1361-956-A	HW2 MOUNT	
659		2-580-640-01	SCREW, +BVTP2 4X16	
660		X-2179-578-1	UNDER COVER (52) ASSY	

REF. No.		PART No.	DESCRIPTION	MARK
661		1-834-140-11	LEAD WIRE WITH CONNECTOR (LVDS)	
662		1-910-038-17	CONNECTOR ASSY (LUG)	
663	*	3-269-273-11	SPACER, BUTTON	
#1		7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

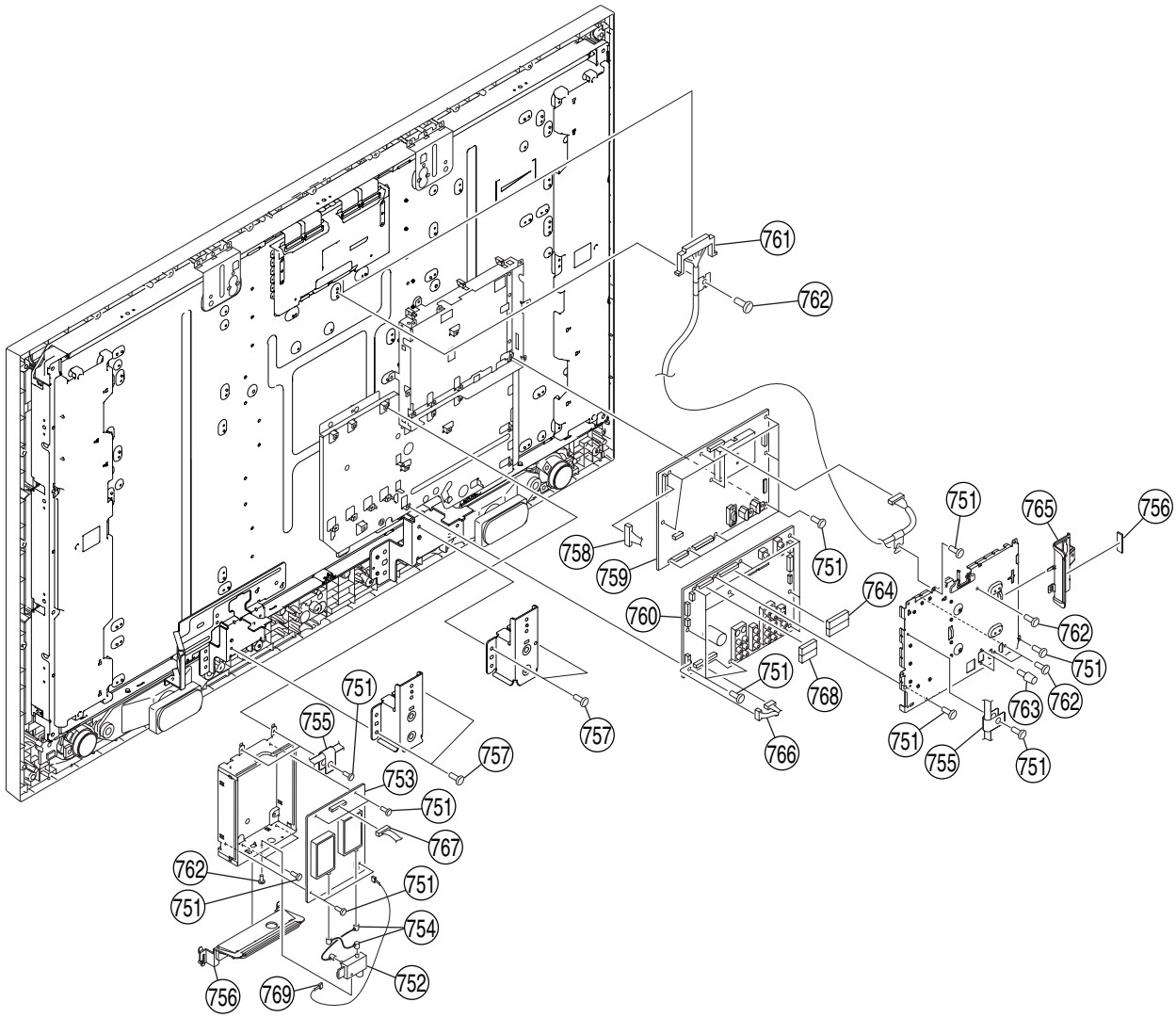
5-3-3. CHASSIS-1



REF. No.		PART No.	DESCRIPTION	MARK
701		2-674-965-51	SCREW, +PSW 3SG	
702	⚠	A-1361-550-A	GF2 COMPL	
703		1-910-037-32	VH CONNECTOR ASSY (DF4) 3P	
704		1-910-036-95	XA CONNECTOR ASSY (DF4) 9P	
705	⚠	A-1253-587-B	DF4 MOUNT	

REF. No.		PART No.	DESCRIPTION	MARK
706		1-910-036-92	XA CONNECTOR ASSY (BL) 7P	
707		1-834-264-11	CONNECTOR ASSY	
708		1-834-262-11	CONNECTOR ASSY	
709	⚠	A-1253-588-B	DF5 MOUNT	
710		1-910-036-99	CONNECTOR ASSY (DF5)	

KLV-52W300A
5-3-4. CHASSIS-2

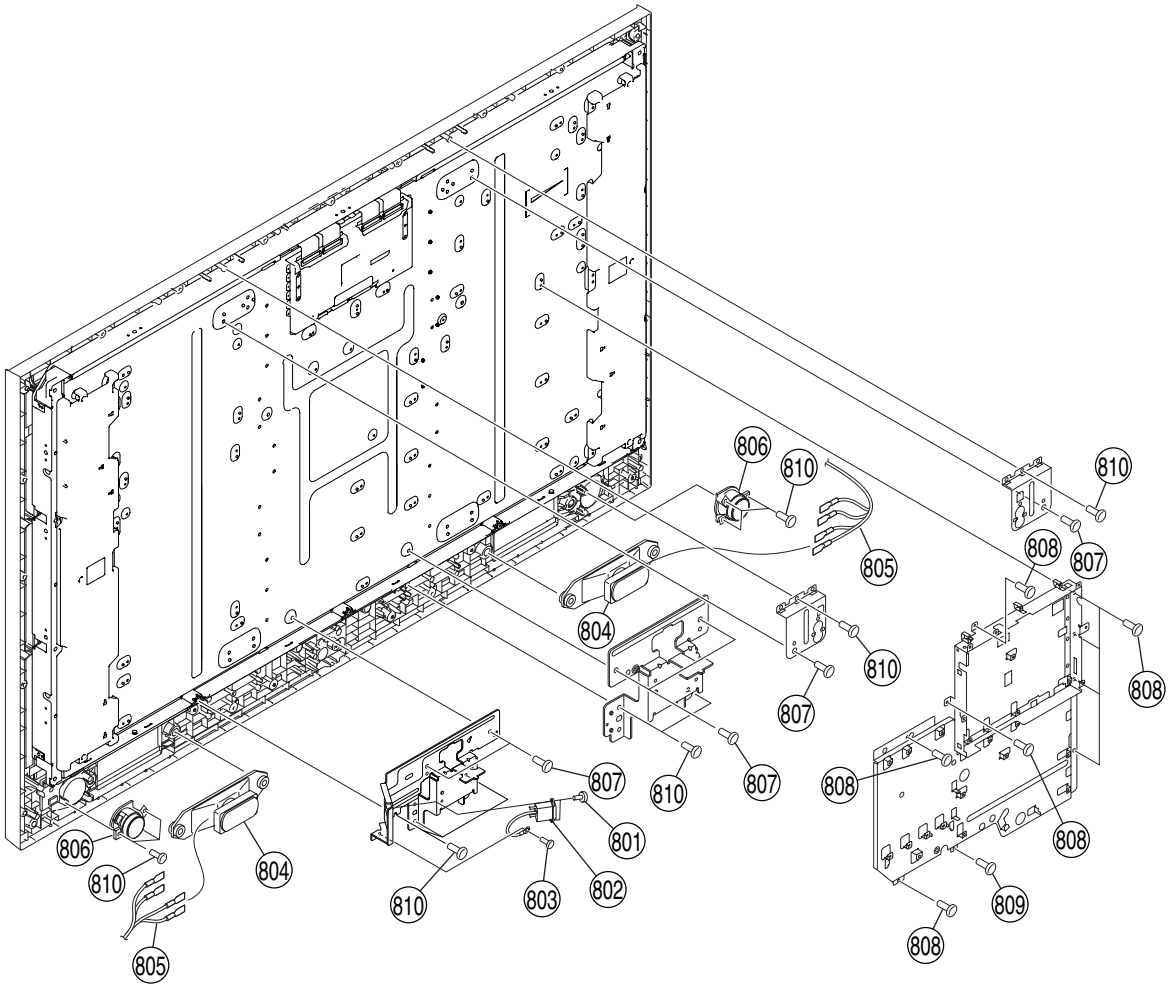


The components identified by mark 🔒 contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

REF. No.		PART No.	DESCRIPTION	MARK
751		2-580-629-01	SCREW, +BVST 3X8	
752		1-251-658-41	SPLITTER RF	
753		A-1314-425-A	TUG MOUNT	
754		1-558-924-21	CABLE, PIN	
755		4-035-862-01	CLAMP, FG	
756		2-689-737-01	COVER, MS	
757		2-580-630-01	SCREW, +BVST 4X8	
758	*	1-910-039-84	XA CONNECTOR ASSY (FB) 13P	
759	🔒	A-1362-570-A	FB2 COMPL	
760		A-1314-443-A	AG COMPL	

REF. No.	PART No.	DESCRIPTION	MARK
761	1-834-309-11	LEAD WIRE WITH CONNECTOR (LVDS)	
762	2-580-591-01	SCREW, +PSW M3X5	
763	4-635-966-01	SCREW (HEX)	
764	1-821-375-11	BOARD TO BOARD CONNECTOR 80P	
765	3-106-942-41	BRACKET, CARD	
766	1-910-036-94	XA CONNECTOR ASSY (A)	
767	1-910-037-69	SHLDP CONNECTOR ASSY 20P	
768	1-821-376-11	BOARD TO BOARD CONNECTOR 50P	
769	1-910-029-20	EH CONNECTOR ASSY 2P	

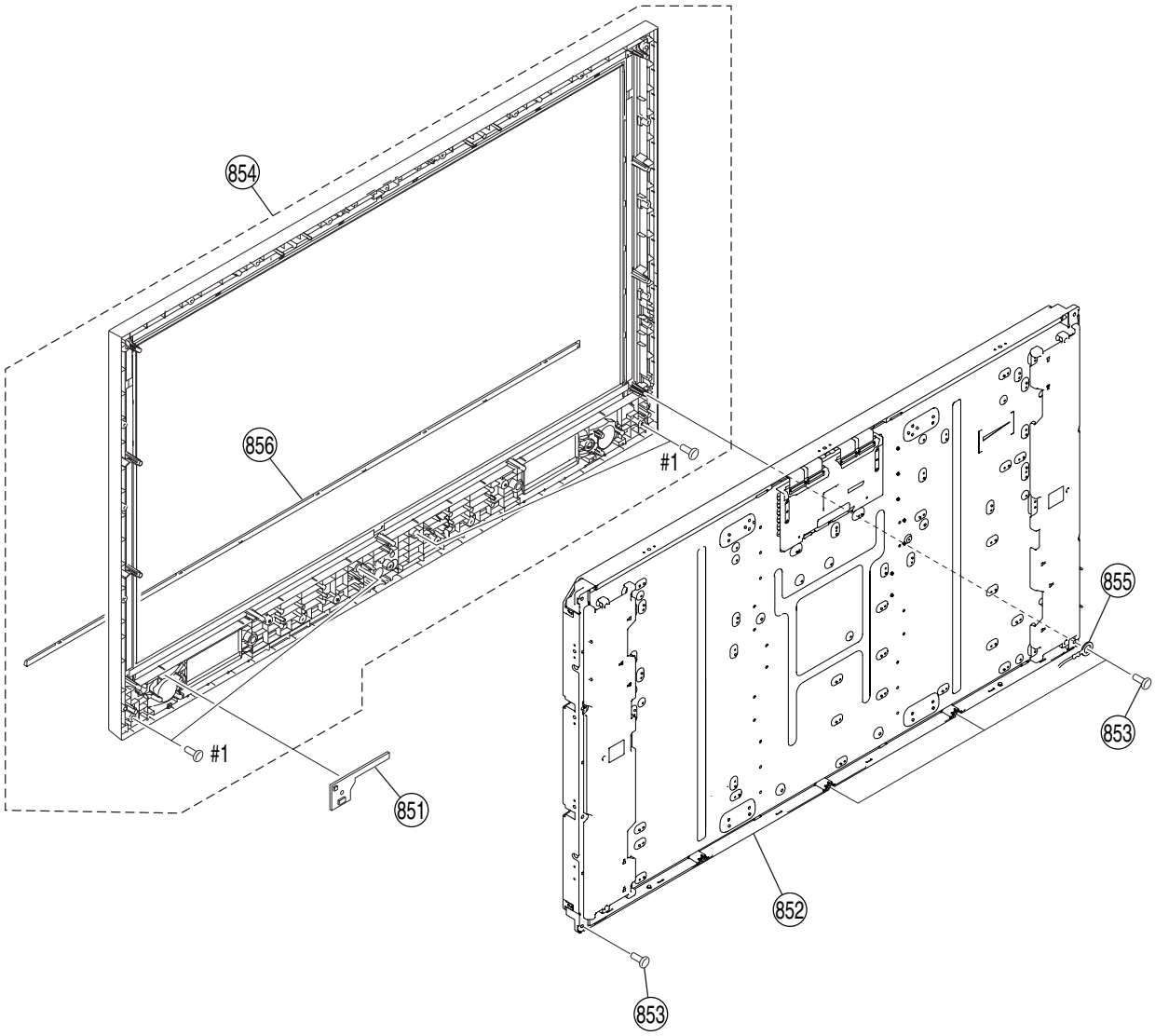
5-3-5. CHASSIS BRACKET ASSY AND SPEAKER



REF. No.	PART No.	DESCRIPTION	MARK
801	2-596-649-01	+KTT 3X10 (S TYPE)	
802	⚠ 1-819-729-14	INLET, AC (WITH NOISE FILTER)	
803	2-580-599-01	SCREW, +PSW M4X6	
804	1-826-697-11	LOUDSPEAKER (13X7CM)	
805	1-910-036-96	VH CONNECTOR ASSY (SP) 4P	

REF. No.	PART No.	DESCRIPTION	MARK
806	1-826-695-11	LOUDSPEAKER (40MM TWEETER)	
807	2-580-606-01	SCREW, +PSW M5X8	
808	2-580-591-01	SCREW, +PSW M3X5	
809	2-580-630-01	SCREW, +BVST 4X8	
810	2-580-640-01	SCREW, +BVTP2 4X16	

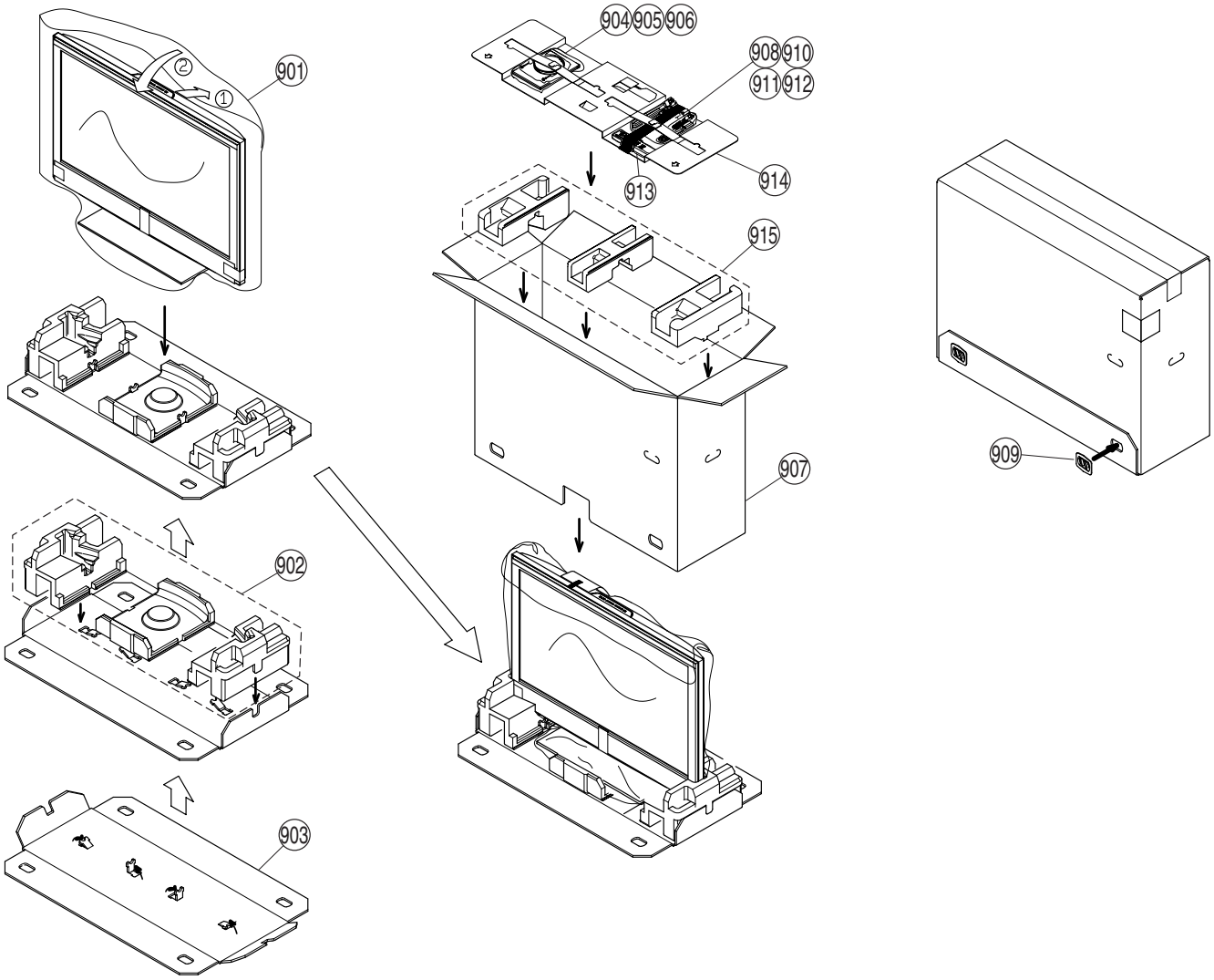
5-3-6. BEZEL ASSY AND LCD PANEL



REF. No.		PART No.	DESCRIPTION	MARK
851		A-1314-430-B	HW3 MOUNT	
852	⚠	1-802-487-11	LCD PANEL (52INCH FHD TFT)	
853		2-580-640-01	SCREW, +BVTP2 4X16	
854		X-2179-898-1	BEZEL ASSY(52)	856
855	*	1-910-039-50	FASTEN CONNECTOR ASSY (HW2)	

REF. No.	PART No.	DESCRIPTION	MARK
856	3-095-429-31	ORNAMENT (52)	
#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

5-4. PACKING MATERIALS



REF. No.		PART No.	DESCRIPTION	MARK
901	*	4-041-425-11	BAG, PROTECTION (KLV-52W300A)	
902	*	3-218-578-01	CUSHION LOWER (KLV-40W300A)	
	*	3-219-999-01	CUSHION LOWER (KLV-46W300A)	
	*	3-219-348-01	CUSHION LOWER (KLV-52W300A)	
903	*	3-218-575-01	TRAY (KLV-40W300A)	
	*	3-219-996-01	TRAY (KLV-46W300A)	
	*	3-219-350-01	TRAY (KLV-52W300A)	
904		3-217-217-11	MANUAL, INSTRUCTION	
905		3-268-169-11	MANUAL,INSTRUCTION (WALL MOUNT)	
906		1-793-504-11	CABLE ASSY (15PDSUBX2CONNECTOR)	
907	*	3-218-574-01	INDIVIDUAL CARTON (KLV-40W300A)	
	*	3-219-995-01	INDIVIDUAL CARTON (KLV-46W300A)	
	*	3-219-349-01	INDIVIDUAL CARTON (KLV-52W300A)	
908	*	X-2102-511-2	BAG ASSY, RUDDER LOCK	
		X-2149-990-1	BAG ASSY, RUDDER LOCK (L) (KLV-52W300A)	
909	*	4-081-035-01	JOINT	
910	⚠	1-830-860-31	CORD, POWER	

REF. No.		PART No.	DESCRIPTION	MARK
911		2-593-320-02	SCREW, CION (M6X18)	
912		2-580-663-01	SCREW, WOOD 3.8X20	
913		1-480-335-11	REMOTO COMMANDER (RM-SA013)	
914	*	3-218-576-01	BOARD, TOP (KLV-40W300A)	
	*	3-219-997-01	BOARD, TOP (KLV-46W300A)	
	*	3-219-351-01	BOARD, TOP (KLV-52W300A)	
915	*	3-218-577-01	CUSHION UPPER (KLV-40W300A)	
	*	3-219-998-01	CUSHION UPPER (KLV-46W300A)	
	*	3-219-347-01	CUSHION UPPER (KLV-52W300A)	

9-834-165-03

Sony EMCS Corporation
Inazawa TEC

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